

<223> Clone ID: LIB103-053-Q1-E1-H10

<400> 4232

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cggcaggaga ggaaagactg ttggtgtctc caagaagcga taagctgctt cacaagatt 180
cctcatagct ttgtactac tgtgttggtc catttccaga atcttaaggg agtgttctta 240
tttagatgat taccttggat gatgttttgc cctagataat gttttggttc tggaaccttt 300
aatatattgt atcttgaatt ctttgttgaa ctcgaaaaaa aaaaaaaaaa aaaaaaaaaa 360
aaagcggccg ct 372

<210> 4233

<211> 326

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB103-053-Q1-E1-H12

<400> 4233

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gaccctgtaa acagtgcagc agatatcgtc actgaagacc accaagaaat tatcaagcat 120
tttgccagaa tcaaatacga gactgttctt gagaacactg atgcatgggc tgatgacgat 180
gattacgatg atgattatta agattatgaa actgggtgatg ctgatgatga tcattccaat 240
tctggataag acttctcggg tcaagattgc taggacgatg accacgatga tcataccttag 300
gctaacggcg ataattctgg ctgagc 326

<210> 4234

<211> 425

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB103-054-Q1-E1-A3

<400> 4234

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cctagaccag tgatctaagc gcagctccac tagccagctg cgcgcagcct cgcgacgccc 120

gacgttatat tcggtcccct cctctctctc ctccggggtt tcgggcgcga aatatcactg 180
ctcatcgccc atacctctct ctctgcctct actacgtgcg tacaacgaga gatcctctga 240
gatcatgaaa ttaggcgctg agatacgtac actgcttgct cgcacgcggt ctcagctcga 300
gaatcgagtt attgccgtcg tatatttctc gagcttggtc cgtcgcacgc tcgcatgcc 360
aattttacat gcctgattcg tgttctttct ggcgtagcca ctagtaagct ttcagctggg 420
cgtgt 425

<210> 4235
<211> 173
<212> DNA
<213> Triticum aestivum
<223> Clone ID: LIB103-054-Q1-E1-A5
<400> 4235

ttctcaacat ttggtgtgca aggcaaacca atcaacaagg aactaagaca aaataataaa 60
gtaacgaaat aaagataaaa aaaaagccca cgaccaggga ggttgatgtg ttccgtcggt 120
gccgcttoga gtcctgcct ctcctagagt tgcacccatc ttcacgggtt ttc 173

<210> 4236
<211> 455
<212> DNA
<213> Triticum aestivum
<223> Clone ID: LIB103-054-Q1-E1-A6
<400> 4236

ggggccacgg agatgggtctg actggcatga agcaagggga tctaatacatt tgggtatgtg 60
agcagcagaa tgccaaggc gcatatagtt ctacagaaga ggtgaaggag gaagtaaagt 120
gcatcaaggc cattatagag aggctgatac agagggaagg ccatcttggtg gtcacatagatg 180
aaggaacagc ggcagcagaa ggtgctgcgg caagggcacg ggagcacaga atcctgggtg 240
ttaacccgaa ctacgtcatt gattgattaa ccagctgagg tcacacagct aactagatcc 300
atcatatgtg gttgaccaat agagcagaca ttcaaacgga agacatcctg ttgtgatatg 360
ctctagaaat gatatgttgt acctgccatc cccttcccaa ggaagcaca gatctctgga 420
attgtatctt ctttccaagg ttgaagtgtg gtaat 455

<210> 4237
 <211> 439
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: LIB103-054-Q1-E1-A7

 <400> 4237

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 agaaaggact cccgaggccc aatgggtgagc acatgtaccc cgtctacggc cgccggagcg 120
 aggtgccatg aggaggggga tgtacgaaga ggagctcatc agcgagttgt ctggaagatc 180
 cacgatgaca tatggatctc aggaacggta atttggcgtc aggggatctc ggacgacggc 240
 gaatcgaaga tggcgggccga tggacagatc cggcgagat ggctttggta gagaagttga 300
 agggcaccgc acgtctcaat cttcggcggtg gtgattccca gcttgacggc gggcatcagg 360
 gacatggcgg tgcggcctct cgacgacatt ggccacggga gcggtgactc tcaggtgagc 420
 acgtgagcga catgccctc 439

<210> 4238
 <211> 425
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: LIB103-054-Q1-E1-A8

 <400> 4238

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 gcggcacttc ggccctcacc tcggcgacaa gcatcttctc caagctcacg tgtgacatct 120
 agggctcctg tatcggggcg gatggcttca tcgtggcgat aattgggggtg gatgacatca 180
 tcaatgggct catcaggagg gcgcacaggc ttcacacgt tcctcgatc gtagtaatac 240
 gtcgtcttcg tcgtcttcac acagcgacat catcgacgcc atcctcacca tggacaacaa 300
 catgggggtc ttcgcatatg cagggcctgt acagatcttt gtgtcagatc acttgattcc 360
 tgacgatatg gaattccaat ctgatgatgt gccacactac aggacttctg atgcatcggt 420
 gatca 425

<210> 4239
 <211> 423
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB103-054-Q1-E1-A9

<400> 4239

gaagccacaa tccggcggag cactacttgg agcaggtaac agaaggtgcc cgcttaataa 60
 aggcgcagtt ctcgaagaat gtcctgttgg agtgacaaat cgaatcattg taaaaacaat 120
 gttatattga ttacggggct atatttatac ttttttcttg aaagtattat tgtgtctcct 180
 gcgcggctgt ttctatgtat atgtgtaatc caaaagttag gagtcgttgg cttcagcccc 240
 cacgcataca atgcgggggt gttcgcaaaa aaatatgcat aatcacactt gatccaacgt 300
 cttgggtccat taaggagggtg atcgcacgtc gaactaggca accggacgat atagctgtaa 360
 cactttcgct tagccatggg attttaccgg tggggctact atgtagcccc tggtagcttc 420
 gcg 423

<210> 4240
 <211> 212
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB103-054-Q1-E1-B1

<400> 4240

catcaacgaa tcataattcc cgggcaagaa gttccaagga atccattgaa caacctacaa 60
 ccaaaggtga caattcctca attgacccaa tgaaactgct gcccctctaa ggcttcgggc 120
 cgaagccaaa gggctccact ccaaaagggtg gtgggtcgcg tggaagaagt ggtgggtcgcg 180
 gtggaagagg tggccgtggt ggattccgtg ga 212

<210> 4241
 <211> 437
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB103-054-Q1-E1-B11

<400> 4241

cgggcaaact taaaccaatg aggttagcaa gggcaaacca ctatattggg tttcaggaca 60

acgagtcaca gatgagcatg gacgccttca gattgattag gatgatgacc tcgaagagct 120
ctaagaactc ggttctggaa cttttggaac tgtgtatcat gggaaatgga ggggctctga 180
tgttgcaata acatgaatca atgacagatg ttttgctggg aagccatctg agcaagagaa 240
aatgcggaat gacttctgga atgaagcatc tagccatgct gatctgcacc accccaatgt 300
tgtggccttt tatggcgttg ttctagatgg gcctgcggga tccattgcaa cggttataga 360
atacatgggt aatggctcac ttatgacggc tttgctgaag aattccaaga gcctggatcc 420
gatcatacgg ctaatta 437

<210> 4242
<211> 233
<212> DNA
<213> Triticum aestivum
<223> unsure at all n locations
<223> Clone ID: LIB103-054-Q1-E1-B2
<400> 4242

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cgccgggcat cagcgcgccc ctctgttcg caacgagaat gcatcgtcgg tgctcaaatt 120
cgccgggctg gtgggtccggc gattcatccc ccaacgggtc tgctgccggg cgcccatctc 180
cggttccggc cggaacaccc aactcaacaa gtacgtcatc tcctcctccg gtc 233

<210> 4243
<211> 397
<212> DNA
<213> Triticum aestivum
<223> Clone ID: LIB103-054-Q1-E1-B3
<400> 4243

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aactgaaaac ttaaggtgtg gtgggtaatg gtttgctcc gaattggccg aattaatccg 120
ttccaatttc aaccattcgt ggaattggtt aaagggtaat aagtcccaag ttcaagttaa 180
ataataagtt ggttggtaaa aaaataaatc aactcaacca caggtcaaca aagtgagtaa 240
ggggaattag gcgaactaag acgaccttat tgaggacaag agcagagagc tgactcatgt 300

cgtacgtgaa ctgaaaaagg aatttaaaga actcgaattg gtgtataaaa aggatgcttc 360
acgtgccacc agctatgcat aggccattca agatgtt 397

<210> 4244
<211> 213
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB103-054-Q1-E1-B4

<400> 4244

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aaaccgcctc cgtctcaagg aagtcacaat atgcaatata ccaccaacaa ggaaatagat 120
gaacggttat gatgtctcaa gtccaagtat agtagtaa at tgttggttca aaaaataaat 180
catctcatcc acaggtcccc aggtgagtca agt 213

<210> 4245
<211> 401
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB103-054-Q1-E1-B6

<400> 4245

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agccagatcg cgctggagaa gcagaagaat ctggagtgtt ggtactgccc ctctgcctc 120
tgcaggggct gcttcaagaa caaggacgac gaggagatca ccctgtgcga cggctgcggc 180
gaggcctacc acgtgtactg catgacgccc aagcgcacct gcgtcccaa gggccactgg 240
tactgcccgc tgtgcagcgt gcggcgggca agggacggga tgcagaggta cgagaagtcg 300
atcctgaaga aacaacaaca tataagcgcc aagcgtgcga gccagtcgga cgacgcttag 360
cctagttgat gatgctattg cttggccaac atgggagtaa t 401

<210> 4246
<211> 420
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB103-054-Q1-E1-B9

<400> 4246

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gccgaacgaa ggtgtagtgc agcggatgaa ggttaaacad agcaaagatg tcatcaaacc 120
gcaggacgat catacccccg atgtcgccat ccacaaagcc cttgccctct ggcaccttgg 180
ccacgaaaac cgggtatgcc acatccttct ctctgagacg ccgcttctcc aaagaaagaa 240
cattgtcgtg cagactccgc atagcaccgg ttgcagcatt gagcatatct ggtggtagca 300
tcgccctacc cgccacatgc accctcctcg agatatactg cggatgaagg ggcccgctct 360
gagcacggat cgtactcggg gccggctggc tcgcaccctt cttagccttt cttttgcgtg 420

<210> 4247

<211> 438

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB103-054-Q1-E1-C1

<400> 4247

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aggttttcca aaacttgcac ccgcccgggt tccccattt ctcccgtgg tcaattctga 120
gccaaacaaa acttgcaaat gcccgcgaca tgtccgagat agtattttat aagtggccgg 180
aaaatgttct cggattggga tgagagttgg cgtgtggtct gggtatggtg taggtagacc 240
gcctgccaag tttcatcgca atcggagttc gtttgacgcc ccaacgatta actatagcga 300
cattatagtc ggtctaactg cggggcgttt cggctccgg aaacagatgc cgggccctct 360
ctctctcttc tccccctcgc agtctcgcca cagccacct agtccatcct ccttccccct 420
ttcgtttccg gagttgtc 438

<210> 4248

<211> 436

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB103-054-Q1-E1-C2

<400> 4248

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gggtgaatta aagaaagccc aatggaattc aactaaaatt ttggataagg gcttaaagaa 120
 agcctcaagt tgctcaatta tatcaatttg agttgggatg cctgtttctc ttcacataga 180
 caacagccat ttgtagaatg ctcttttgct tcacttatat ttgttagagc gtcggcatat 240
 attttttaga aagaattaa ctctcttggt tcacttacat caatttagag agatgacagg 300
 aatttgtcat tcacatgggt agtcatataa tccatagataa acttgtagat cgctgaatat 360
 ggtatgtttg attccttgca atagttttgc gatatgacga tggatgatatt agatcatgc 420
 aagtgggtgg ttgtgg 436

<210> 4249
 <211> 435
 <212> DNA
 <213> Triticum aestivum

<223> unsure at all n locations
 <223> Clone ID: LIB103-054-Q1-E1-C3

<400> 4249

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 attgtgaatt tgaaaattgc ttgagttgaa gtttgcaagt cccgtaccat gcacgtatgg 120
 taaacgtcat gtaacaaatt tgaaacatga ggtgttattt gattgtcctc cttatgagtg 180
 gcggtcgggg acgagcgatg gtcttttctt accaatctat cccctaggag catgcgcgta 240
 atgctttggt ttttgatggc ttgtacattt ttgcaataag tatatgagtt ctttatgact 300
 aatgttgagt ccatggatta tacgcactct cacccttcca tcattgctag cctcttcggt 360
 accgtgcatt gccctttctc acattgagag ttggtgcaaa cttcgccggt gcacccanac 420
 cccgtgatat gatac 435

<210> 4250
 <211> 96
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB103-054-Q1-E1-C4

<400> 4250

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 caatttcctt ttggaagggc aaattgattg atggcc 96

<223> Clone ID: LIB103-054-Q1-E1-C7

<400> 4253

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agacttggct ctgtatacca tgtagattg gatcgatgga agcgttccta ctctccgta 120
gaggagccgt gtgggtatgt attgattgtg gcagaaaacc tgccttgag tacaagtact 180
tgccgatcgc taggatacag caggagagaa gaccgaggt tacacgggag agaggaagag 240
atagaattag gaggtagtta agattacatg acgtgaatat ctctaactct aactctaaca 300
caccgcatgt acggcggcgc cgcctcttgc gctgacagt tgacgacaac ataacgcctg 360
gagcacggca gtatgctccc ttggcttga cgcacactgt acttggtctt gttgatcaat 420
atgttgaatg cgatgaagcc ac 442

<210> 4254

<211> 450

<212> DNA

<213> Triticum aestivum

<223> unsure at all n locations

<223> Clone ID: LIB103-054-Q1-E1-C8

<400> 4254

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aaggaaacaa cctctatata gttaattgtg gtaagcatga aacactaagt cttccctgca 120
taaagtataa atcatgagca ccttgggtacc aaaccaagca attggatcgt acttctaaca 180
cgcttcagca ttttcaactt cactcaatac atgagcgtga gccatagata tagcactatg 240
ggtggaacaa aatatggtcg taaggatcaa tangagaagg aagaaagtct cgcattaatt 300
gggcggatca acgggttatg gagatgcaa tcaatcaata tcaatgagag gactacggat 360
ttccatgcaa caaatgcact aagagctata agtgtatgaa agatcaaact gaaaactaag 420
tgggtgttca tccaacttgc ttgctaattg 450

<210> 4255

<211> 444

<212> DNA

<213> Triticum aestivum

<223> unsure at all n locations
<223> Clone ID: LIB103-054-Q1-E1-D1

<400> 4255

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gaaagggagc ctcaaaaggc ttgggaaggc aaaaatcaag gaatccccgg aaataaagga 120
aaatttggtg aaaccaatga atactgtana gaaagcagct tcaaagtggg tttctaattc 180
aagtgangag ctgaaagtca atgcatcaat gaaagctcct aatgttgctt ataacgcaaa 240
ggaaagggaa gctacattat attcgccgat gagagctggt gctgggggtga tcacgaagaa 300
acaaaaggag catgttatag atatgggaaa atctgatgat tttgtggaag aaccactgcy 360
tcttccgcag tctgttgcyg cgcgtactga aaaagtcact gtcagtccca gtgttcgtac 420
ntaaaaaggg agaagtactt cact 444

<210> 4256

<211> 104

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB103-054-Q1-E1-D2

<400> 4256

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<210> 4257

<211> 427

<212> DNA

<213> Triticum aestivum

<223> unsure at all n locations

<223> Clone ID: LIB103-054-Q1-E1-D6

<400> 4257

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gcggtgtttc gcggcctcgg tgtacgaatg ggtgggcgga tgggatggca gtggggaacc 120
atggcttaga gacgcgcttg tccgaaatgt ggggtaagtt acgaaagtac cccaccgat 180
ttgaggcggg tctttcgggt caggggtacc acgggcattt cgcgtgtcgg gatttcacag 240

gaggtgggag ttttcgcgcg cgttgtaatt tcggaatagc aaggcgcggg ttgagatgga 300
 gggagttgtc ggagcacaac gagacanaga tatatcttaa atatttcggg ctaacaaggc 360
 gcggattgaa gaggcgggag tttcgcagca tgatagacag agacgctagc ttggattttc 420
 ggcataa 427

<210> 4258
 <211> 445
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB103-054-Q1-E1-D7
 <400> 4258

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 agagagcaca cttacaacaa atactataac ggagttgttg gaaaaccaac aacgaaaaga 120
 ataagcttga tatggtctta tggaatacat ctcaaataat gaggtgacaa cctgccactc 180
 acagaaaaag attgtgttga taagaataag gagacgagaa acttattcac cggaaggata 240
 aaacaagaac ttggatcatt tataaccacc ataaatagca aaatccttag ggaaagcttt 300
 aggtgaaata taacccaaga taactccaac gaagagggtg atggatttaa aattttctcat 360
 tcttaacaac atgtgaatca tgaaacatga gctcaaatta tcaataatga cataatacca 420
 cctccaatga tacggtagaa agaat 445

<210> 4259
 <211> 412
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB103-054-Q1-E1-D8
 <400> 4259

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 agtggaaga aaaaggagaa gaaaaagaag aaaaaaagat gcagatgagg cacaatacgt 120
 agagatagta gtttacattg gcttgtcatg ttatttggtt gcagttatgt gggagcttga 180
 actacctgtt ttatttgctt tgtaccctt gcaaccgtct atggtttggg aggtacgcct 240
 gatgtactat ctttacgtta ctgccattca accgaaatgc tatggtaatt acagagattt 300

ccctttaaat ttggacaatc agccatgtat tgcagtatct gttatctgta tttgcagtga 360
 attttgttct catctcaata aatcaagaca catgagctca aattatcaat aa 412

<210> 4260
 <211> 368
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB103-054-Q1-E1-D9
 <400> 4260

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 aaaaaacgga taagaaaaag aagaaaaaga gatgcatagg aggcacaata ggtacagata 120
 gtagtttaca ttggcttgtc atgttatttg gttgcagtta tgtgggagct tgaactacct 180
 gttttatttg ctttgtaccc cttgcaaccg tctatggttt ggtaagtagg cctgatgtac 240
 tatctttatg ttactgccat tcaaccgaaa tgctatggta attagagaga gttcccttta 300
 agtttggaca atcagccaag tattgcagta tctgttagct gtttttgcag tgaattttgt 360
 tctcatct 368

<210> 4261
 <211> 419
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB103-054-Q1-E1-E12
 <400> 4261

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 gttttcttcc tcatcaagag atccacacat ctgatgaagc tgatgaacgc ttactgcgac 120
 cgtcagtctg tggatctcaa ctccattgct ttcctttttg atggctcgtat gctccgtggg 180
 gagcagaccc ctgatgagct tgcgatggag gaaggcgaca atatggatgc catgcttcac 240
 cagaccggtt ggtgctttcc tggcccttag aatgagcttg ctgcagcctg actgtttctat 300
 gtcgtatgct acgttttagca ctagactaca ctgtgagaag tgccagaagt tgtcaggcta 360
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<210> 4262

<211> 428
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB103-054-Q1-E1-E2

<400> 4262

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 aaacactaat gccccctttg caagaacaag ggaaacactg aaaccaaagc aaaagatctg 120
 ggtccgattt gcaaaactcg taacaaagaa gaaccaaaaa taagttttca ttacactgat 180
 gtttaagata gtttccaca ttaatcataa aatctgcagg attgataaga cagttattac 240
 aactgcacct acagttgcat tatgcgcaac aacggaaccg tcacagcaat gttacccctc 300
 ctcgctcgaa gctgcatttc actcagacct caaacatgac gccaaacctg gtaacaagag 360
 gaatggatat gatggcagca cccagcgcaa cgccaaatat acggtgtgag atggagaacg 420
 tggcgctc 428

<210> 4263
 <211> 440
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB103-054-Q1-E1-E3

<400> 4263

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 ttgectcttg ggctaattgat gaacattaca agggcagaac ggctctctga ggttaaggcg 120
 ttcttgtgct tggtgagctt gtgtgtgagg tggctctctt caagctccga tcagtcctct 180
 cactcccttt ttctctctcc cttttcactg tgggtggttag tcctatttat agaggccctg 240
 gtctctctcc gaaatatoga gcgggaaggg agccaacaat ggcggggctaa tttgaagggg 300
 ggtagctagt acaagctatc ctgacaaaag tagtattcgc gtgcacaaag ttctggtggt 360
 gatgttgttt tgggctccac gatgacctcc gtcttgcaat cctcggtctt ggtcttgttg 420
 caccgaaatg gcaacctttg 440

<210> 4264
 <211> 445
 <212> DNA

<213> Triticum aestivum

<223> unsure at all n locations

<223> Clone ID: LIB103-054-Q1-E1-F2

<400> 4266

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ggataaggaa atgaccgacc ccaataagg ggcaatccac aaagcccaac aacccccaaaa 120
aacctccgaa ttaggtgggt cgggcaaccg gaattcacc aaatccaaa gccataaaac 180
acaaccaacc aacgcaaaaac aacaaggcct cctccctcct ttccctcctc cgaaatcgca 240
cgactcaacc gctgccatgg acgctggaaa aaacctcaga tctgttctga cctctctgta 300
gttcttttgc tcacatttct tccttccaaa gtccttctcc cagtcggcaa acatccacta 360
cagaaaaact ggaaaagtgg atgagttctc attntncaca gatctgtcaa gaaggacaaa 420
acggagaaaa gaaanaaagg gagagaagaa cctgc 455

<210> 4267

<211> 433

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB103-054-Q1-E1-F4

<400> 4267

gtccacgggc catcatgaat attcattggt gtctctcaaa ttcattgttg cagatgtgct 60
gcatctacgt caacgacatg taatctgcgc cctgacatac ctgtgccttg ctcatgtatg 120
tttgcggtt cacaatgttac tgtctgtact tgtgagaatg atgtttgacg aaagtaacaa 180
cttgaacata acatagecca tatgaccaag ctgttccaat tcgggagctc actctgtatt 240
caattacttt ctattactaa acatatactt gtatctccaa ccaatccgag ctgggcttgg 300
tgggcttaac ctatgcatct gcattggatt tataaaaagta gtaaattgtac atttagagaa 360
cttgacagac taaactcata taacttcaca catggataac gcaactattat aagtactcaa 420
aagatgacca ttc 433

<210> 4268

<211> 444

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB103-054-Q1-E1-F8

<400> 4268

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caccctccta tctcttgccc tcctcgaggg tcttctgacg tgaactccaa gtctctagga 120
tgatattctc ccaaaaaatc acgatgccga aggtttcatt ccgtttggac tccgtttgat 180
attcctcttc ttcgaaatac tgaacaggc aataaaacaa caatatgggc tgggcctccg 240
gttaataggt tagtcccaa agtaataata aagtgtataa taaagcccg aatcattcaa 300
aacagataat aaaatagcat gaatgcttca taaattatag atacgttaga gacatatcag 360
caactccttc ccctattccc tggagatgca acgcaggga acaccgttcg accgtttccg 420
gtagagctct ccatcttgga tgca 444

<210> 4269

<211> 262

<212> DNA

<213> Triticum aestivum

<223> unsure at all n locations

<223> Clone ID: LIB103-054-Q1-E1-G1

<400> 4269

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gcgtcatcct gtagttgata gtaaagaggc agccagtgtt tcccttatta ttaaaaaaga 120
gggattcgca ngggcgctac ttatttacta agtggacttg ggtcgcaacc tgcattggcg 180
cacaccccat gatcacgng tggaatatgg tcgccccacc tgttctcatg cctctgactc 240
gctcgccaca tgtcnccat gc 262

<210> 4270

<211> 356

<212> DNA

<213> Triticum aestivum

<223> unsure at all n locations

<223> Clone ID: LIB103-054-Q1-E1-G2

<400> 4270

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ttaaaacaag aatttgagaa aaaatgaatc ctcaatttta aaaaccggcc ccaaaaaaaaa 120
 aaggaaaacc caaaaaaagg aaggccggaa tatttatata ttaattaaga aaaaaaacag 180
 gcaagttagt tagttggtgc cacagaatgc aatgcatgct cncatcatca tcatcatcat 240
 catcatcata atgtgatcag agctgagacc tgatcgatgg caaatattag tacttagatt 300
 agtactcctg ettacacaag tccagtaatg agatgcctcg gttgcttcgc ttctgc 356

<210> 4271
 <211> 113
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB103-054-Q1-E1-G3

<400> 4271

acatcatcat cgcccctgcc atctaccacc accgctatcc gccacgctcc gaatccgtat 60
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<210> 4272
 <211> 434
 <212> DNA
 <213> Triticum aestivum

<223> unsure at all n locations
 <223> Clone ID: LIB103-054-Q1-E1-G4

<400> 4272

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 ggaaaaggag gcaaaacctt ttgatgataa aagaccagc aagaaaaaga aaagaaagaa 120
 aaaaaaaaa acggaggatt tcaaccttga taaggatgac tacatgttgc tcaaggataa 180
 taacattacc ggcactcctc gtccgaagcc tcctgaaaac aagtttaagc ggttgaagaa 240
 ggcaagacgg gaatctgaaa tggatgggcy ttctggcttc tctgatcatg acggagcaag 300
 aaaaagccgg actgctgagg agacagttcg tagctccttg tttggtaatg aagaaccgtt 360
 tgaggaagat tttgtcgagg aagatcagca ngtagatgaa gatgaagttg gtgaagatga 420
 tatggatgat gaaa 434

<210> 4273

<211> 448
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: LIB103-054-Q1-E1-G5

 <400> 4273

cgggtccacg ggaagaggaa gtgtgaagca ctctggccaa tttccgcat ttctcatcaa 60
 agaagccgtt acatttatga tcttttctat aaaaggaagg agatatcaaa ggagctgtat 120
 gagttctgcc tggaccaggg ttatgcagac cgtaatctga ttgcaaagtg gaaaaagccg 180
 ggttacgagc gcctctgctg cctccgctgc atccagaccg gagaccacaa ctttgcgacg 240
 acgtgcgtgt gccgggtccc caagcatctg agggaggagc aggtgatcga atgcgtccac 300
 tgtggctgca agggatgtgc cggcggcgat taactgacta gttatgtgta ttcatcatgt 360
 gtcgccgaat ccatgggtggc tctaagccaa gactctaga tgtttcttaa gcgtgttctc 420
 tggtaaagaa cagatcgtcc tgtaatgt 448

<210> 4274
 <211> 417
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: LIB103-054-Q1-E1-G6

 <400> 4274

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 tgtcgtggaa cccagcggag aagtgggtgg tggccagcgt ggcggaggac aacgtgctgc 120
 agatctggga gatggccgag agcatataca gcgacgacaa cagcaacaac gccaacagcg 180
 cctcgtgcct gtccacataa gaagacgccg ccaaccaact tcttcctga tgtgtggacg 240
 atggccgatg gggacatggc tcgttcgtag tctttgggtg gacgagtcgc gtgcggttta 300
 cttgtagtgc ctcgtgcggt ttcgtcgctt aattagcagc tgctgctatc gtttggcgcc 360
 tagatcctgt agacatggat ggatggagaa gtgactctgg aatatttgta cgtcctt 417

<210> 4275
 <211> 433
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB103-054-Q1-E1-G8

<400> 4275

gagatgtgtc actcgcgcgtc gggatcacgc gcgacggcgc ggtcgggcag ggtggaggaa 60
ttcgccgacg cggcaacgga ggaaggcggc ggtccaaac tctccgcgt cctctacgac 120
gtgtcgcagc aggtccagga cagcctccag agcatgctga agatgacggg cgagatcgag 180
cagtgcagtg acgagatcga ggtggagatc gagcaggcca aggagggcgt ggctgacaag 240
tacaggggtgc tcgaggagga gaaggaaagg ttccagaagg tggccctcgc ggcgctcaac 300
atcctgagcg gtggcatctg aagcctgcac caccttaata ccaacaaaga caatcctgat 360
aactgccccg ctctgtagat caccgttcat gtgcaagcct agcaatgaac cgccagttgt 420
actcctccat atg 433

<210> 4276

<211> 131

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB103-054-Q1-E1-H10

<400> 4276

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tatggatatc ttgtacttgt gactggcctt ctacggagca tccactccgg tttagatata 120
tacaggatac c 131

<210> 4277

<211> 357

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB103-054-Q1-E1-H12

<400> 4277

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aaatagacac tgcaattatc gtataagtac atcattgctg ctgtcagcag tgctctctaa 120
atagacactg caattatcat gtacatcatt gctgtgcaa tgaaccatta agaattattt 180
aaaatctagc ctaccatctg cgttgtcgtc aacatagggt tgaggcggag ttacaaaatc 240

tgtatgagaa accgagggat tgtccgagtc agcgacatct ttgttatctt cagagctgtc 300
agaagcatct gagatggcgt cacctgattc tgaatgtgtt ctgtccacat atgcttc 357

<210> 4278
<211> 318
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB103-054-Q1-E1-H2

<400> 4278

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acattggctc cggcgggatg cagaggagg atgtcacgct ccggacatac gcgccggtgg 120
ttgttacttc tggcggagtc tagactaccc ctacagatga ctactagtct tttctgtgca 180
ctttgtctcc actcgtgcgc aactgtaagc aacttcccat tcggtcacac atcttgaaac 240
tactctaagc tgatcaagct taactttgga gttctatccg aatgggctct cggattatac 300
ggaattcctt attgatat 318

<210> 4279
<211> 394
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB103-054-Q1-E1-H3

<400> 4279

ttcacggggc cacggggagc aggacaatga cgagtgaagc ggacaatgcc ggaactgctg 60
ttccaaaaac caactgaact gttttccggt ggggtcataa ggagcctatc aatctcaact 120
agaattatcc caagtttcac ttcacatcgt gatgttggtt tacctttttt cttgtcattg 180
tcctgctata acggatagcg ctccctgttg gcgccgctgc cggcgggggtg cccttgtgtt 240
ggagggtgta tgctcccagc gccgggggtgc ccctgcttgt acctagatgg ttactctttc 300
cgtccacatc tgtcaccggc taacattgtg ataatatcag tctgggtaat gttagaaaaa 360
aaaaaaaaa aaaaaaaaaa aaaagcggcc gctc 394

<210> 4280
<211> 389
<212> DNA

<213> Triticum aestivum

<223> unsure at all n locations

<223> Clone ID: LIB103-054-Q1-E1-H4

<400> 4280

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aacctatggg aaggattaat tatgttctta ttgttgcaaa taggaattat gtgcctatat 120
atttcattgt tcttgatata tattgcaatc ctacacgtcc tattattctt ggtagatctt 180
tccttagaac gattgggtga attattgaca tgaaagaagg aaatattaga ttccaatttc 240
ctttaaggaa aggtatggaa cacttcccta gaaataaaat taaattacct tatgaatcta 300
ttatgagagc cacttatgga ttgcatacca aagatgacaa tacctagatc tattcntggt 360
tttatgccta gctaggggcg ttaaacgat 389

<210> 4281

<211> 408

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB103-054-Q1-E1-H5

<400> 4281

cggccaatga aatgcatttc ggtgacggcg ggcacacggc caagatttcg gagctgtcat 60
ggaacctcac cgataagtag gtggaggcca acgtgacgga cgacaacatg ctgcatctct 120
gggagatggc cgtgagcata tacagcgacg ataacagcaa caacgccaac agcgctcgt 180
gcctgtccac ataacaatac gccgccaagc aacttcttca ctgatgtgtg gactatggac 240
gatggggaca tggtcgttc gtactctttg ggtggacgag tcgctgctcg tttacttgta 300
gtgcctcctg cggtttcttc gcttaattag cagctgctgc tatcgtatgg cgctatatc 360
ctgtagacat ggtttgatgc gtaagtgact ctggaatatt tgtacgtc 408

<210> 4282

<211> 427

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB103-054-Q1-E1-H6

<400> 4282

ggggaagggg tagacgataa cgggtggctg cgtggtaacg catagctagc atggcagggt 60
 cctgctactg atgagcagat gtggctcagt gagccacgg ggaaagagta agtgccactt 120
 tataataatt gcattagttt gcttgtcaca tgctcattct ggttggttaat tattgtgcgt 180
 gtcagatgct aatagttcat tcttttgcag caactggata tattctgaag ggggccgtat 240
 tcccaacggc ctcatcattg tcttgctgat gtttcaactgg cgggggttgt actgtccgga 300
 tccattcaag caccgatgc atcaggtctt ggacacgagc tgggagcact gcgaagcagg 360
 gctccatgct tgacatggga cgcagccaa ggccgtgatg accactctca gggtgagttc 420
 gtttcat 427

<210> 4283
 <211> 418
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB103-054-Q1-E1-H7
 <400> 4283

tccgggtcca cgggtaggat ttcgaggatc gcgaaatgca atgcaataaa atatgatatg 60
 catgaatgat ctatgtataa cattccaaat tgaaaatttg ggatgttata tatgattgtg 120
 ttttttatgt tttaattagt gtttttgcca agtaaagcct ttaggatctt cttgggtgat 180
 tgttgtttga tcttgctgaa aaaaatagaa agtatgcgct cacgagaata aattttgttt 240
 ttttaccaga gagcgataaa ctaccaattc caactgaagt ggatcaatat acaaattatt 300
 taagtcctcc taaattttta gaaatttttg agttacacaa gtattccaaa cctgcagatt 360
 gctataaact gttctgtttt tgacaaaatc tgtttttcct gtgttggttg cctaattt 418

<210> 4284
 <211> 124
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB103-054-Q1-E1-H8
 <400> 4284

aaaatgatat gtcgagaaag atgatagagg tgaggaggag tggggcgtgg tggtgactgg 60
 tggtcggact gggctgatgc atggggatgg actgcgccgg caacggccac catgccagat 120

tggtt

124

<210> 4285
<211> 428
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB103-055-Q1-E1-A12

<400> 4285

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agcaagagaa caaaattctg ataacaattt tttaaaaaaa aatctacaac tagcaatact 120
gctacaaatc tggaccagtt tagacctcgg accacaagtt acggctaagt gctacagtta 180
tcttcggaac cttgtctggt caaggaagtg gcggttgga gccttataga agcatcaccg 240
cagatggccg tcaagacatc aaactctcct cacgttgtct ccatggataa ccaccgcgcc 300
ttcagtcatc aggggtgcaa gagcaccgcg gagttcgtgc atatgaattt ccattgagct 360
ctgcttctc agttctcca gcaactcaat catgcgcac gaggggcctc caagctgcat 420
tttccccg 428

<210> 4286
<211> 149
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB103-055-Q1-E1-A2

<400> 4286

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tsgtgggcac acatcacatc ttgcgaaggc ttggaacagg atgctcaata atcatccaaa 120
cgacagagaa ccagcagtga caactttgt 149

<210> 4287
<211> 363
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB103-055-Q1-E1-A4

<400> 4287

acgttccact atcaaaaaat atataagaga aacatacaga ccacgtagct ctgaatcact 60
 tatatgcgtc ttttacttgt ttacatcatc atattatccc tttggagttc gatatatggt 120
 cagttgccaa tttttcatat cctaagtcgc ttaaggtttc atgataaaag gcatgagaga 180
 gcacatctgt aataggtgca tgcccaatat actgttttaa attcactata ttgtttgtgt 240
 tactttgtgt ccacagccta ttttaacaatg gggctcttac ttaaaagcta ctgtgatgtc 300
 tacctatctc ttgtctgata caatcctgct ttaacaagt gccgagattt tgcacgtca 360
 cca 363

<210> 4288
 <211> 357
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB103-055-Q1-E1-A5
 <400> 4288

tcttttttta attttatata gaacatagtg caacagcctg ttgaatggta ccaaaggagt 60
 ctgggcagat tcgatgaaca catagaacta taaactggat ccaactgcaa tcagtgtcca 120
 gaacacgcaa agccgtacag attcacagt caggggaaac acggagttac gatgacacaa 180
 acggagataa cgggtggcagc agggggactc aaacgttcac cagccacagt tagtacgggt 240
 acttcatggg gaacacgaag gacacacaac atggattgcc tttctgatag gcaatgcagg 300
 gtttggctct ctccttcagt tcccgcgggg tagcacctcg tcgccgcagg ctttact 357

<210> 4289
 <211> 386
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB103-055-Q1-E1-A6
 <400> 4289

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 aacaaataga actacaaact ggatccaact gcaatcagt tccagaacac gcaaagccgt 120
 acagattcac acagcagggg aagcacggag tttcgatgac acaaattggag ataaggggtg 180
 cagcaggggg actcaaactg tcagcagcta cagctagtac ggtttcttca tggggaaaac 240

gaaggaaaca agacctgcat tgcctttcta atatgcatg cacggtttgg tttcctcctt 300
 caattccgc ggggtactat accgttaccg caggctttac tcacttggcc atcatgacct 360
 tgacgaactc ctctacttg attcgg 386

<210> 4290
 <211> 371
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB103-055-Q1-E1-A7
 <400> 4290

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 attacactac accggcagct tacacaccgg agcggactca tgcacacaat acaacagcac 120
 atcctcgacg atatccgcca tctctctcgc attcgagaat ggcgcgcgct cgccattgcc 180
 gtccccaat cgggatttta tctcgctatt gctacggtac ggccgcgcgt acccattagg 240
 tcgacgtcgc cgcgatcggg ctggcgacca cgtggtggtc gctggaccag actagccgcc 300
 cgaaccggtt ggtgcccgcac ggcacccgc ccgcctgaa acccaccgtg tagcgcaccc 360
 tctcgctgga c 371

<210> 4291
 <211> 422
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB103-055-Q1-E1-A8
 <400> 4291

cccctagagt attttttctt gtcttttttt tattttattt tttttttttt tttttttttt 60
 tttttttttt ttttcagaaa agccggaaga caatagagtt tttgaacatt accccgaaca 120
 atacacataa aaggatcgag tctccgttac acgaaatcct ggaggacgaa tgcagctatg 180
 cacgcaggcc catggatctt ttattttatg agctaaaatg gcttcgagcc gacccaaggt 240
 taccatggag actctacttg ttctgcagca aggacaccgc tgccttatca gtgaaccagg 300
 tgaattctcc atcttgtagc acagccatct caacaggcag caggtctgac gaggtttgct 360
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cg

422

<210> 4292
<211> 121
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB103-055-Q1-E1-B11

<400> 4292

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atctataact agcaatactg ctacaaatct ggagcagttt agaggtcgga ccacatgtta 120
c 121

<210> 4293
<211> 154
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB103-055-Q1-E1-B4

<400> 4293

cacttgcaga ttactactac cgcctgcagg ttagcatat cggttgcaca gaaatgacgc 60
cagtagatcc aaacgggaaa tcgctgctac acccgcgcgg attcacaacg tcaccagcgg 120
acgccacacg ctgaggaact ccagctattg ggca 154

<210> 4294
<211> 352
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB103-055-Q1-E1-B5

<400> 4294

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aacaccgtgt cgcaccagca agcggagcgc ccatacaagg tgaataacgt atggctcgcca 120
gatgagggtt tcagagccta agaccaggac cttttctgag cctagaaaca tccagaggta 180
catgctcgaa atgtcatgag cagcatgtgt gttttgttac attgtaaaat caagcctctg 240
ggagcttgaa gatggctcgg aaaggtttcc agaactccac ctcttcagca tctccagagc 300

agccttcggt tgatccatag gtacatgtg accaacatcg tgaaccttca ag

352

<210> 4295

<211> 217

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB103-055-Q1-E1-B9

<400> 4295

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gcgaggctat agcgagcgag agagcgatag cgcgggtgcgc gggcgtggct cgctcagcgc 120
gcgaatgcgc tcgtcgacg gatgcagggg agagaagggt cgcttggtcg gttgatcgat 180
aaatcgaagg aaatccgat gagcgatgaa tgcgcgcg 217

<210> 4296

<211> 409

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB103-055-Q1-E1-C12

<400> 4296

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acaggcatca tagatgcttg gggtaagtac agactgcagg ctaaaccatcc caatccaaca 120
acggtcgagt gccgatgaag cgaagaaact acaaactaaa ctgcctcact ccagggcagg 180
gacgacactt gcaaggaaac tactcagaga agacggcact aatctactgc atctagaaag 240
tccttcgaga aagcccgtt aggccgacaa cgacgaagat tttttccct gactgcaaac 300
acttgacag agtttcatcc gtcatacatc actcgtcacc ctctcgtcc tcgtcgttca 360
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<210> 4297

<211> 383

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB103-055-Q1-E1-C3

<400> 4297

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 cgcttggttat ccagatgtca caactaccgc gagtcaagac gctcttataa cgcaaacacc 180
 ttcactacat atgaggcctt ctgcacctga ttataaccac tatatataca ttatcatgtg 240
 ctgcacaggt tgcattctcc attcctgctc cactccttga ccgcccagca aagcaatgga 300
 ccaaaacatt gcctccagag cttatagctt catctatgaa accaaagcat tcatcagaat 360
 gctttaacag atcagtgtct ggg 383

<210> 4298
 <211> 417
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB103-055-Q1-E1-C5
 <400> 4298

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 attgcagtga atattattca acatgtaaac tgcattccaa tggatgaaca acgttgcttg 120
 ctgtttacat cataaagttt gccaaaggcct cgcttggttat ccagatgtca taatacgcgg 180
 tcaagacgct cttacaacgc atacgccttc actacatatg aggccttctg cacctattat 240
 aacactagta taattatcag tgctgcacag gttgcattct ccattcctgc tccactcctt 300
 gaccgcccag caaagcaatg gacaaaaaca ttgcctccag agcttatagc ttcatctatg 360
 aaaccaaagc attcatcaga atgctttaac agatcagtgt ctgggatatc aagtact 417

<210> 4299
 <211> 407
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB103-055-Q1-E1-C8
 <400> 4299

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 ggctcgaaat tacacgcgcc attaatgcgc agcttgacc agcgggtttc aggtcaaggc 180

caaaactgagg aaaagatggc gtccggtccc cgacagcgac gcaccccgcc gccagaaaac 240
 aaatgcagta ctgcccagac tcgaaggagg tttgaacggg gcggttttat ttcgacttcc 300
 tgcttggtg cttgctttac tgaacgaagc acgaacccgg gccgaccggc ggcctccgag 360
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<210> 4300

<211> 400

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB103-055-Q1-E1-D1

<400> 4300

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 ggcagctaaa gctgaaagaa aacaagtgt cacaagtaca catcatagga gaggtcacgg 120
 aggggttatg cttactagga agacggctag catacgcaat tgaggacaaa ggattactgg 180
 aaagctttcc cgaattggcg catcacttta gagcatcgcc gagggccgca agcattccca 240
 ggctctgctg caactcagcc aacctcactt tcaaggcctg gacgctccgt cgggtgtacat 300
 ccgtgtaggc atcgttgacc aaacccgaaa gtctttcagc acataacacc atcgagctt 360
 ctgtgagttc aagactcaca ggttgctggt atccaaaaag 400

<210> 4301

<211> 403

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB103-055-Q1-E1-D12

<400> 4301

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 tactgctcca tttaagtttc aacctcagac agatctaaat gagatacaat ttgagtaacc 120
 aacatctaaa tgcttgatag gttggcggat aaagcaaata ggggcaagca attacgcctt 180
 ctggttgtag acataggtga ggccgcactt gccgcagtag tggcggtcga agtggttggc 240
 catgaagacg cccgcgccgc actctgtgtt ggggcactcc ttgcggagga gggtcacctt 300
 gccagtggcg tcgtccacct tatagaactg cagcacggag agcttcacct tcttgtgctt 360

gtgcttgatc ttcttgggct tgggtgtacgt cttcttctta cgc

403

<210> 4302

<211> 323

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB103-055-Q1-E1-D4

<400> 4302

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tggaaatacg taccaactac tgaactgaca tggacacgat atcacgtac actatgaagg 120

gtggaataac atagttcttc atgtcccaca agtaacagag cgctaattta ttattacaac 180

caccatgcct ggtcaaacta cattaaggac tgccactgtc cctgcctgt gcatacacac 240

aggagcgag tgaacggggg cctccaccgc aaccatggta gtgacaccga cacctactca 300

catctacatg agcttgggtc acc 323

<210> 4303

<211> 389

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB103-055-Q1-E1-D5

<400> 4303

acaactagtc tcgagtatct tttttttttt ttttttagtgc catcaccata tattcgatat 60

ataaaacgtt accacaatct gctttctgta cttaatagag cgacattagc acatagcaga 120

tctacaaagc ggtaaaggac tccaacactt gtgcaagctc aactgcagat atttcttgaa 180

gtttcaacct actaccaaag aattaatgga actatgcctc gcggtatgta catcgctgca 240

gatagaaacc ataaaaactg ggtttcaacg tcagaactca tttccttctc ttcccacttc 300

ctatatttgc tcacttgaaa aagaacttcc atatcgccct gtcacacacc tcagtcaaga 360

agtggccacc aaggacacct tcctcttcc 389

<210> 4304

<211> 396

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB103-055-Q1-E1-D9

<400> 4304

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catcgcttcc cggaagaga aacaatataa acaagagcag gaaaacccaa aaggtcggtt 120
cgttcttttg atgatccctt ctaagagaaa gtagggaaaa gaagaggaag aaaccacgaa 180
taaagatgat acaagctcag aagacgtttt cttcttcaca gcacaccaac atcactgcaa 240
ggaagtgtct aagaggtaaa cactggacac tcagttaccg tcctcttctg gccagtaggt 300
gctgttagag atgaacagag gtcagatgtc ttcagaacgc tcaacctctt caccgaagaa 360
acaaacatcc cccagaggga catcgccaaa cagcaa 396

<210> 4305

<211> 432

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB103-055-Q1-E1-E11

<400> 4305

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ttgatccatc ttacaacacc agaagaaaac aatcctgagg atacacaagg caaggatgta 120
caaacgtaaa cagcagtaca gcacacattg atagaccttc gaatcgaacg acaaactccta 180
gtgcttgctt gacatgcagc gccagaaaaa tagagaagat agagaaataa ttctgattat 240
tccaagttga agcaactcct gcaacatttg gtatccgaca agcaccact catcacatag 300
gctaaactag ttcgctacaa taagctcatc ttcaggattg gcattttgag gtagcatcgt 360
caattcatcg tcagctgcac tgaaatgata tttctctcca acaactcca aaaacctggt 420
aaacttcaaa ca 432

<210> 4306

<211> 383

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB103-055-Q1-E1-E12

<400> 4306

tttaaattaa cgaaatgctt acaacagata tggaatccta atattgttac aaaataatca 60
 tgctactcat ggaggacaaa aacagtgatg cacagttgta atttgagcaa cagcatcacc 120
 atatgtgagt acaagacatt aaccacaaat ggagaatcca tggtagcatc ttcacaagtt 180
 cagaagagca gaagctgcag tataacaggc tacaaggata catatcattt atcactttgc 240
 tgctccttca aacaagtgtt ggatgtgggc tacaacatcc tctgggggtg atttgatgta 300
 caaatcacgc ccagtttcag gagaagactt taacttggca attaaagagg cgtaaactgg 360
 catcactgtc tctccaccg ctg 383

<210> 4307
 <211> 385
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB103-055-Q1-E1-E2
 <400> 4307

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 aataacaagg tgcattgtga ggaaccaggt aacatgaaaa ccacctgtg cttccaattt 120
 gtttgtgcta tcaacagcca aaaatcacga ttagcagttg gcattttgat gatcatagga 180
 aaagctaaaa agcattctaa cccgatacaa caattggcat ctacatatgc taagcagcat 240
 aacaatttca ctggactaac atccccacaa actaacacca agcttgtggc aaaagctagt 300
 tacttgttac tgatccccga acaggcacta accccaaga aaataaggat ttatgccacc 360
 aaaatgttat cgccacgtgt tggaa 385

<210> 4308
 <211> 424
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB103-055-Q1-E1-E3
 <400> 4308

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 tttggcacat cgcaataaga atgtgcatgt tgaagaagca actaaaacga caaccagctg 120
 ctgcttccaa tttgtttgtg ctatcaacag ccaagaatca agattagcag ttggcaattt 180

gattagcata ggaaaagcta aaaagcattc taaccctata catcaattgg catccaacta 240
 tgctaagcag cagaacaatt tctactggcct atcaccctca caaactaaca ccaagcttgt 300
 ggcaaaagct agttactttg tgctgatgcc cgagcaggca ataagcccca acaaaatagg 360
 gatgtacgcc accaaaatgt tatcgccact tgttggagag cttggctcca aacggattgc 420
 tccc 424

<210> 4309
 <211> 385
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB103-055-Q1-E1-E4
 <400> 4309

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 acaaactaaa tattttctctc atatgtgtcc tcacaggatc gcaagagcaa cagaaacact 120
 gggaatcctt tttacatgca tcagacccaa aaacaaagtc tgaaagtctt aatgccatca 180
 caagattttt ctgcttaacc acctagtggg acttgggact taacatggac cataaaagag 240
 gccatccaca acgaagtctt ttaccaaaga gccatccctg gctccatgga ccacaaaagc 300
 ttggagattt tcgggaagcc acgactcaaa agcttggaga tctccagcat cccaaccttg 360
 tccctccac caaacaagct tttga 385

<210> 4310
 <211> 402
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB103-055-Q1-E1-E6
 <400> 4310

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 accacagaac atcatcagc atggcacata agccacgcca tgacattcag tattcgacac 120
 agtaaggaca tcatcagtaa ctaacggttt cacattatta gcaacaaggc aactgcaatc 180
 aactggatt tacattgtac aggaagcaca gaaacctaaa tcaggatcta acgagtcaca 240
 agcaagcata caggttccta gtatatgcca gcagtagtct ctaactgtca atgccaggtc 300

cggtttgccc ctgtgtctgc agctgacctg gcagttgggg ctgcagctgc gcttgtgagc 360
 cccccctgtg attgtagaga tgtacctgag gttgggggtg gg 402

<210> 4311
 <211> 368
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB103-055-Q1-E1-E7
 <400> 4311

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 ccacgatcta attcgtcatg aaaaggctcc aggcacgcat actcgatata gagagataaa 120
 cactgctgga gctggactca tcgttccggc tttgtggtgg cctagtcttg tgctgtgaca 180
 ttctgcccct cctttgtttg tgatatgcca taattttgac gtgagtacag tttcactggc 240
 atgttgattc tggaactacg actggacatg tgggaaaaac tagtatactt tggtttggga 300
 ccgcaacagg cattaagccc catccgtata cggatgttcg ctacctaaat gttctcgcca 360
 cttgttgc 368

<210> 4312
 <211> 451
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB103-055-Q1-E1-E8
 <400> 4312

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 gcacatcttc actgcatcat gtaactagaa aggtgcaagt caccatgaat agtaagtact 120
 aaatactgat aagatggtga taactgataa taggataatg ctaaaacgaa ggttaaaagt 180
 ggaatggaac tgggtgtacat aaagtttttg ataaccagtt caggtgccaa acagaagtag 240
 tattccaagg ttgaagcagc aactgaaaga cggcactaca caacttttagc tgagaagagg 300
 ccaccatcga gcaaatgcgt acacatagga tcagagcaag tccattcatc ctgagctact 360
 caagatgctt tgcaagtga ttcgcttat gtcgatgggc tccgagaacc ttgaaattgg 420
 tcaaagtgtg cccctgacgg aacatctccc a 451

<210> 4313
 <211> 281
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB103-055-Q1-E1-E9

<400> 4313

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 aaaagcatgg atttactgaa atgggaatag tgaacaagt gaccttcatg cccaaccag 120
 acaaacgctt tccagttcat ccgacgggat ggatcaggct gggaaatgcc caatacagtg 180
 tcaccatgga ggggtttcatc tgagcggatg acgggagagc tatcccagca caggtcgacg 240
 gattgcccac ccaaccgtag tatatgcacg acggggggat g 281

<210> 4314
 <211> 295
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB103-055-Q1-E1-F1

<400> 4314

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 aggagataag ttaggcaaca cagtctggtt cagttcgatc gccgccaggc atagaatctt 120
 ctcaggccta ccatctacat actccagcag atccaatcca ccggagatta gtatttacag 180
 ctttgtgagc gatttagaca ttctctagt gaaccgcaag gagtgcaact gatggaaacc 240
 tgacaccaga aatcaaagaa ctctcagttg agttagaaag gccgaccaga agtcc 295

<210> 4315
 <211> 405
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB103-055-Q1-E1-F10

<400> 4315

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ctaggcccat aacatacact ccatgcaacg ccatcaagtg gccaaataca ccagttatca 180
taattaacaa ccagcatgat ctgacttcaa acttcatgcc gtacgaagggt gtggagaaac 240
caatatgaca ccatcacctc ggacaaaaag aaaggggata gtgcgtttcg tggcgcgac 300
aattttcttca tatgtttcat catctatctc aacagttgtc acgacctctc aacatctcca 360
agtatcatgt ttaaagtgtg atcatacgca tggagcttgc cgcgc 405

<210> 4316
<211> 425
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB103-055-Q1-E1-F12

<400> 4316

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agatagacat tatgccagca aaagcactga tctaattcac cggcagctgg ccagccgtaa 120
agaattagga gataagttac tccacacagt ctggttcaga agatcgccgc caggcataac 180
atcttctcat gcctaccatc tacatactcc agaaaatcca atctactgga gattactatt 240
tacagctttg tgagcgattt agacattcct ctagtgaaac gcaaggaatg caactgatgg 300
aaagctgaca ccagaaatca aagaactctc agttgagtta gaaaggccgc gcacaagtcc 360
agaaagagga gctgtggccc actgactctt tgcaaatcga ggaggtatct ctccgtccct 420
ggttt 425

<210> 4317
<211> 311
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB103-055-Q1-E1-F2

<400> 4317

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atgcacacga tgggtagccc atgtaaataa aatgacgatt ggatttaact gcattgcagt 180
tcataagatc ctgttcaatg gctcccggtg tgatgaactt ctcaatggca tggaccgctt 240

cgaaggcgac cgggatggag aaagttatgg ggccaaccaa taggtcgaga gatttggcga 300
cgacctcatc t 311

<210> 4318
<211> 288
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB103-055-Q1-E1-F3

<400> 4318

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tcattccatg cacaggtagc ctctgtagtc gtcgtcggtc gtaatgggtca cttcacgtat 180
taattggcgc catatcggtc gtaagggcgg aagccgtggg cgagcgcggc gcgccaggac 240
ttgtctatcc cgggtgaacct ggcgacgac tcgtgcgcgt cccagcgt 288

<210> 4319
<211> 403
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB103-055-Q1-E1-F4

<400> 4319

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catacatatg gcacaacgac tgggcccacac tattacagtc aacgaaccca ctctaggccg 180
gacaccttgc tattgggctt aagcttcctt tttaatcttg gctgtagcag cacaccatct 240
tcgcttccag tctctggcgc aggttcactt gtcttggcat ccttgtgtgt gctaacagag 300
tccgataatg tgatcttgat tccaacaag acaacaatag aaatgcttaa ttagaaacgg 360
acaatacatt atcataacca gcgtccaaaa cttggatgca aca 403

<210> 4320
<211> 390
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB103-055-Q1-E1-F5

<400> 4320

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cataaagttt gccaaaggcct cgcttggtat ccagatgtca taatacgcgg tcaagacgct 180
cttacaacgc atacgccttc actacatatg aggccttctg cacctattat aacactagta 240
taattatcag tgctgcacag gttgcattct ccattcctgc tccactcctt gaccgcccag 300
caaagcaatg gaccaaaca ttgcctccag agcttagagc ttcatctatg aaaccagagc 360
attcatcaaa atgctttaac agatcactgt 390

<210> 4321

<211> 415

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB103-055-Q1-E1-F6

<400> 4321

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agcctaagaa atacagtaca aaagagtcac gcctatcata catcgaatgt tctcaatata 180
gacgaagctg ctggccagcc tacaacaatt tcagagttta acgtgactac tgggaagggc 240
aaaatcatct gcgcgatgaa acccagctgc gcccaccagc actggctgta gtcttcgggg 300
gaggaaacat gcttatgtcg gttggggcag cgggttggtc ttcaaccaca aggaccgcc 360
tagcatggct ctacatgaa cagccatgta tgaagcattc aacttgtcaa catca 415

<210> 4322

<211> 416

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB103-055-Q1-E1-F8

<400> 4322

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gacatacaca accattatat tggtgaaaaa tacatgcagc tcctgtcctc aagactcggg 120
cagaggcgca gagcacatcc ttctaattgg gtatacatat gctttccctg tctatcgtgg 180
ccatggactt tgcaatacca tagataccat acgaaaacac gaaacgggag aagcaaggaa 240
acgttacaaa tcgtacatgt ggatacaaca ctaaaacaag cgttccacac agctagcacg 300
gcactgatca ctgtacctga tcccgtggag tgaagcgggtg aacgggtccga cccacaggac 360
aactgaactg aactgaactg cacaggcggc ggcggcaaga cagaggaact ggtgaa 416

<210> 4323
<211> 377
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB103-055-Q1-E1-G1

<400> 4323

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tgacaaaaat gcagggagag aatgagaaga gtacaggcgt tcataaaaag gaatgagcga 120
ctcagctcat acaaattgtca atgcaacgtc aagcacattt agcaggtcac tgtaccactt 180
caaggtcctt gaagtactca tgctcaagtg cttgcctcgc tgtgattctt ttgcctggct 240
cgtatcgaag catttttagag agaagggtcca acccagcagg gtcaagattt gggactactg 300
ttgccaggtc ctgagcttgc cacctgggga aagctgtctt gaagtcaggc aaacaactga 360
ctccctggcc aactctg 377

<210> 4324
<211> 426
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB103-055-Q1-E1-G10

<400> 4324

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aacactttta ggtttcagaa gcaacattgt cttgtctcac gaaacaatac aatacttgaa 120
tcaaacacct acttcttaaa ttatttacat gccaaaggctc agaatgctta tcactttgga 180
acacataaaa cgaacgactc tctcaccgtt cgttcgttca ttcattcatt cattcattca 240

ttcacaggcc agcttgggtgt cgaagctcgt cagacatatg gcgaaggcct ggaaggccga 300
cagcgggtac cggtagtcca tggatgaacat gtccctcccg accttgccga actgcaggat 360
caccgggtca tggtagcagc acgacgacgg cggcggcggc ggcggggggc cggaggcctg 420
cggctg 426

<210> 4325
<211> 357
<212> DNA
<213> Triticum aestivum
<223> Clone ID: LIB103-055-Q1-E1-G11
<400> 4325

aaaaaagtaa acatcttttag gcataatgca aaatcctgac agcgaccaca aaaactgaga 60
caatgtttca ccatagtacg aggcaacaac acatccgttc tgaaacacat gtcctttaac 120
aatctaaagc acagtagaca gataaacaac gacaataact ctaggtggcc ttgtcagcct 180
tgagggtgtt ggcagcagct tgaccctga gccttcagct cctcctagcg gcaatgagac 240
caaccttccg gccaggggga gcgtctcggc ggacagtaca ggcgtcaccg atgtgttggg 300
ggttacctcc tccgtgggga tgctccacag ggttcatggc cacaccacgc accttgg 357

<210> 4326
<211> 399
<212> DNA
<213> Triticum aestivum
<223> Clone ID: LIB103-055-Q1-E1-G2
<400> 4326

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aattagtacg cagacagcaa tcagcaggta tggaacatgt ttcacatgat gtttagattt 120
gcaggatatc ctcttatttg gcggttcacg gttcacccgc gagttgattt ccgatatcgc 180
ccttagctca ccggacactc agttgttgca agtggcaact acgaaggagg agcagcagag 240
gcagatgcct cagccggagc cgcctcgtca tccttgtgct tcaccatgcc cgagtcgacc 300
agaatcggga cttccgccgc gagccacggc gcgagggcca ggcacagcgc gtgcgccagg 360
ccgaacctcg ggcagttctt ggcccacagc ggcttgaag 399

<210> 4327
 <211> 396
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: LIB103-055-Q1-E1-G3

 <400> 4327

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 ccagattcga aatatccagc tgaatgacaa aaatgcaggg agagaatgag aagagtacag 120
 gcgttcataa aaaggaatga gcgactcagc tcatacaaat gtcaatgcaa cgtcaagcac 180
 atttagcagg tcaactgtacc acttcaaggt ccttgaagta ctcattgtca agtgcttgcc 240
 tcgctgtgat tcttttgctt ggctcgtatc gaagcatttt agagagaagg tccaaccag 300
 cagggtcaag atttgggact actgttgcca ggtcctgagc ttgccacctg gggaaagctg 360
 tcttgaagtc aggcaaacaa ctgactcctg gccaac 396

<210> 4328
 <211> 394
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: LIB103-055-Q1-E1-G6

 <400> 4328

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 cagacatgtc acgagcatgc agcttcaact gcaaggcttt ttgtgacccc tgtacatgga 120
 ttccaaaat aattcgacga cactggcacg ctgcagctgc tcaactccgat gcaagcctcc 180
 tgaacaattg agagagcctg agtgctgctg cattcgccat ggctgtagct tccacatgtg 240
 ccactcggtg tcccaaagct tgcaaacttg acgctgctga tgacctggcc ttcttttggg 300
 cattccaggc gaagtgcagg tccatatctc tgcacgggct gttgagaact ccaactatca 360
 atttgggctg gatgtgcctc tgatacttgt gcgc 394

<210> 4329
 <211> 423
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB103-055-Q1-E1-G7

<400> 4329

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gtatacgtac atttacatcg caaaaaaaaa gtatgtacaa tttcgaggga cgtggcaaaa 120
ttcatcaatc actcggccaa aaattggttt gtgcaaacat ctctgatgat ggatactagt 180
ctgaaagaat ctgttctaac tcaggatccc cggccaatac atcgtcaacc atttcagcgt 240
caacaacctc tttgtcagca gggacatctt cgtcatcatc aggttcgccc gcctcttcat 300
ccgtatgatt gggaacagct ggctcgccaa tgcctttgcc ttggtcagca acactattca 360
atacttgatc atcttgagat ttggctctgg ctactgcttt gccatcagtc ctttcacaaa 420
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<210> 4330

<211> 437

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB103-055-Q1-E1-G8

<400> 4330

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cagacatgtc acgagcatgc agcttcaact gcaaggcttt ttgtgacccc tgtacatgga 120
tttccaaaat aattcgacga cactggcacg ctgcagctgc tcaactccgat gcaagcctcc 180
tgaacaattg agagagcctg agtgctgctg cattcgccat ggctgtagct tccacatgtg 240
ccactcggtg tcccaaagct tgcaaacttg acgctgctga tgacctggcc ttcttttggg 300
cattccaggc gaagtgcagg tccatatctc tgcacgggct gttgagaact ccaactatca 360
atttgggctg gatgtgcctc tgatacttgt gcgcacaaaa ttcttggtcg gcctcatcac 420
aaaggatatc ttgcttg 437

<210> 4331

<211> 407

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB103-055-Q1-E1-G9

<400> 4331

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gtaaaagaag gcgctctagt ctgagagaga catattaaag taaaataaca ggtactctag 120
tctgagagag taagacaggc aggcaggcca taacaaagat tctcagcttc ttcaatagaa 180
gaaacctaga accttgcttc ctacgctctt cggcggggcc tctcgtggg ccatgatgcc 240
tgccgaagtt gtgaggacga tgtatccgaa ctgcctggac gggagcagcc ttgcagtcca 300
tccctcaatg tctttcacgc cgatatcaaa gcgagggctg atgacgccgc acttggtcag 360
cctcccgttg agttcgacca cgatcttgcc cgatcgggtg tcatcaa 407

<210> 4332

<211> 244

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB103-055-Q1-E1-H1

<400> 4332

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gttctaaatc cggatccccg gccactacat catcaaccat ttcagcatca acaacctctt 120
tgtcatcagg gacatcttct tcatcaacag gttcgcccgc ctcttcatcc atatgattgg 180
aaacagctgg ctgcgcaatg cttttgcctt ggtcaccaac actattcaat acttgatgat 240
cttg 244

<210> 4333

<211> 394

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB103-055-Q1-E1-H10

<400> 4333

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cggctgatca cacgcgatca actatcccaa gtttttacag gcacagaact accaccgaca 120
ctcatgctgg agtaccgac gaatctagag ctactgacaa tattacgatt ggatcaaaat 180
ccatgaaaga ggggaatcta taggcggaat tgaggggggg atctcgccag cgacaaggca 240

ggcagactac ttcttggcct tcctggccac gcccttctctg gccggggcgg cagcagcagc 300
 agccttcttc ggggttgcca cttcttagg agccgcgcgt gcctttccct tcttggcagg 360
 agcagccgcc ttcttgggtg gcctggccgg ggaa 394

<210> 4334
 <211> 342
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB103-055-Q1-E1-H5
 <400> 4334

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 caagacgtcc gagacatcca cataatcatc tacgatatat caacatgcat aaacgaatcg 120
 tagctaaact aagccttcac atgcagccca ctggggggtt accgctaata cacacctaca 180
 actcatcgta ctcatggaac ccatgaaaat catccaacag gacatcatca tctcctgac 240
 agtaattgca ttatggagac cacgtggatg tgccaccgca aggttacgtt tttggctcgt 300
 tgtcatggca tggaaatggc actgatgctc gcgtgacgat gc 342

<210> 4335
 <211> 405
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB103-055-Q1-E1-H7
 <400> 4335

ccccacgagt attttttttt gtctttttta attaaccgtt gtaatagctg aaattattaa 60
 tgtagataga cattatgcca gcaaaagcac tgatctaatt caccggcagc tggccagccg 120
 taaagaatta ggagataagt tactccacac agtctgggtc agaagatcgc cgccaggcat 180
 aacatcttct catgcctacc atctacatac tccagaaaat ccaatctact ggagattact 240
 atttacagct ttgtgagcga tttagacatt cctctagtga aacgcaagga atgcaactga 300
 tggaaagctg acaccagaaa tcaaagaact ctcatgttag ttagaaaggc cgcgcacaa 360
 tccagaaaga ggagctgtgg cccactgact ctttgcaa at cgagg 405

<210> 4336
 <211> 370
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: LIB103-055-Q1-E1-H8

 <400> 4336

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 atactgtcac aaactgttac cgaacactta aaacaaagac tagatgttcc ccaaaactga 120
 tgacaaagca cagctcctca gtacttgata ggggcaagaa tctccaactg agaccccaac 180
 ttctcctcgg ctgccttctc ggccttgaca cgcagcttgg ccaattgctt ctctcctcgc 240
 taggcaacct tggccttctc ctctcctctc tectcaagtt ccctgatggg gtcagtggtag 300
 ttccaccga cctccttaga gagctcgccg aggaggcagt acttgtgtcc aggctgtagc 360
 ctcagaacct 370

<210> 4337
 <211> 412
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: LIB103-055-Q1-E1-H9

 <400> 4337

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 gacaacaatg tatctgtttc cgcagacccc tccagcgaaa atcgaccac tgatatctgc 120
 aaaatcccag ttccagcttt ccctcgtaca atatgtgaaa aagaaaacaa aggtaaaagt 180
 gggcaagcca aaaacaacca caccgaagca gcccactgt atagaaaaag gactattacc 240
 aaactgggta tcggccctga caaaaagtgt cagggtgat caaccaggac cagccctcgc 300
 acatcaagac cgcctaagc cactcccaca tgtcttgctt gcttggggct atagaattta 360
 ctggagcgca cagtaaaaa acagctgatg gaccacaact gaactccaag ca 412

<210> 4338
 <211> 392
 <212> DNA
 <213> Triticum aestivum

 <223> unsure at all n locations

<223> Clone ID: LIB103-056-Q1-E1-A2

<400> 4338

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taatttggtta tctttgtaat tctcttcgaa ctatcgattt gatttggcta actagattgg 120
tttttcttga aatggagaag tgcttagctt tggattcaat cttgcggtgt cctttcccag 180
tgatagtang ggcagcaagg cacatattgt attgtcgcca tcgaggataa aaagatgggg 240
tttacatata ttgcttgagt ttattcctct acatcaagtc atcttactta atgcgttact 300
ctgttcttga tgaacttaat actctagatg caagcaagag tcggtcgatg tgtggagtaa 360
tagtagtaga ttcagaatcg ttttggacta ct 392

<210> 4339

<211> 376

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB103-056-Q1-E1-A4

<400> 4339

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ttcgacagtg acgcgagaag acgagggagt aggctgctgc aaacgtaggg ctgtgtgatt 120
tgacagtggg ttactgctgg acaggtgggg cctgttatt tgacttgcca ttatcatttt 180
aactgtggtg ctacgaccgg cgtgagtcct cggattcttg accacctcca tacaggtgcc 240
tctcccaatg ctccaccatg tagtacaggc tggctcttgc atgagagcca acttctccac 300
tttttccttg cctctctttc cttcgcatat gcaaaaatgc catgtaaagc gcaactattgg 360
taacactttt acttgc 376

<210> 4340

<211> 373

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB103-056-Q1-E1-B1

<400> 4340

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aggatgaaat gaagatgcaa aggagaaggg gccgacgagg aggacgagga cgaggatgag 120
gacgacgaag aagacgactc cgacgacgaa gaagacgagg attcggagga tgaaggggac 180
gaggacgagg acgaagactc cgacgaggag ggctacgacg acgacgacga agacgaagac 240
gaggactccg atgaagacca tgaccacgag gaggacgagg acgacgaaga cgacgactag 300
gacgacgacg agtataatgg gatggaagtg gagcctgcgg cgttcgcacg tgggtgagga 360
ttaaataag atg 373

<210> 4341
<211> 125
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB103-056-Q1-E1-B11

<400> 4341

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gctcgtcagc atcacctcca ctatcacctt acgcttcacg taaatccatc agccaaccca 120
cgatt 125

<210> 4342
<211> 341
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB103-056-Q1-E1-B2

<400> 4342

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acgatggctg cggcggcctc tgtgagtcac ggtcggcaac gggagtcagt tcattgtcca 120
tgacggtggt acttctacgc ttggcgtcgg cttccgggaa gcagatccga gaccgtggaa 180
gacgatgccg gggaagaggc tccgtgtacg acgacgacgg tggaccggct ccagtgcggc 240
gtacgaagtc gtcgatgagg cagatgcgct gcggtggacg agtgcgccga tgtaaagggg 300
aggagcatga aggctgcagt gccgtggaga agtccaattt g 341

<210> 4343
<211> 336
<212> DNA

<213> *Triticum aestivum*
 <223> Clone ID: LIB103-056-Q1-E1-B4
 <400> 4343
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 aacaattcag atgacgagta atcgcgctcat ttgttcgagc cgtgcgacat ttccattct 120
 tgccctcggt actcggtcag tcttgctgaa cggaagaagt gaaggcatgc ctgctttgca 180
 gagaagaagc aaaaacattg aattgttgta tcttgccctt tttgttatgc tgcattgctt 240
 gttaagtcac cagaattttg taatggactc ggtgagacgt acattttggc tatcccaatg 300
 ggaaatgaaa tattactaca tagtaagtat cgtttt 336

<210> 4344
 <211> 182
 <212> DNA
 <213> *Triticum aestivum*
 <223> Clone ID: LIB103-056-Q1-E1-B5
 <400> 4344
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 ctcgttgagg atgaaatgaa catgcaaagg ataatgtgcc gactaggacg acacgacatg 120
 ataagactac acaagttact ctacaccaaa aacttgattc caagattaag ggacaagaca 180
 ag 182

<210> 4345
 <211> 374
 <212> DNA
 <213> *Triticum aestivum*
 <223> Clone ID: LIB103-056-Q1-E1-B6
 <400> 4345
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 acgccgtgaa gaccaccgtc aggaaccccg atgacgggga gaagaacgcg cctctcaaga 120
 ccctggcggc gctggggccc ttggaggtct tccgcgcaga cctgaacgaa gagggcagct 180
 tcgacgacgc cgctcgctggc tgcgagtacg ccttcctcgt cgccgctccg gtggccctca 240

tgccaaagat accccgagga acaagtgata catccagcga tccaaggaac cctgaacgtg 300
atgaggtcct gcgtgaaggc tgtgactgtg aagcgcgtgg tcctcacatc atccacggcg 360
gcgatctcca gccg 374

<210> 4346
<211> 423
<212> DNA
<213> Triticum aestivum
<223> Clone ID: LIB103-056-Q1-E1-B9
<400> 4346

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ccggtccaga tgcgcatact tcggatcccc gaacttcgtc cgcaacaaga agggccttccc 180
agacacgata tctgcaactt gattcagctc ctccctttatc gctctaattt tggagcgggc 240
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aagaagccgt taacggtcag gagcatcttt taactccacg gccatcttgg caactttttc 360
cttgcctctg caatgtgagg cctgttcggc ccttaactct tcagccgcct gtaaaacggg 420
cgc 423

<210> 4347
<211> 415
<212> DNA
<213> Triticum aestivum
<223> Clone ID: LIB103-056-Q1-E1-C1
<400> 4347

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caccattggg cccggttggg ggcttgaacc gggaccacag gctgcctttt agtcccgggt 120
catgccacga accgggacca atgaggtgcc tatatatacc cctcgcccg c gagcagagca 180
ctccagtgt atgtttttct ctggctcggc aggggagggc tttgtggtgc tctagctcac 240
ctcctatgca catgaggtgt tcggtgaaat gcccagacca cactagttaa gctttctcct 300
ctcggagctc gacctcaaag ctccattttc ctcgagattt gtctaggttt agcggcccg 360

cacgtcgcat tcccgctcttc accgccgtcg atcgcccgcg ccgatctcgt cgccg 415

<210> 4348

<211> 429

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB103-056-Q1-E1-C11

<400> 4348

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ctttcattaa tattagttgc acaaacgaga gtacatcaca eggcttaaac tcgatcatta 180
caaaagtaag ccatcagcaa caccctagct ggcctacac cattacatac ttggctgcta 240
acctatgata caaatgtcat aatacaccct agcaccttga ttcagatttg ctatcttttc 300
tgcggctgct atttcttgct ccgatttagg gatctattga ggaacagtgt gcaactagga 360
tttgtttctt cgatttgggg atggattatt atagactgag ccgccaccaa ttgaagagtt 420
ataatgaaa 429

<210> 4349

<211> 425

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB103-056-Q1-E1-C3

<400> 4349

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gaagagctcc aagaactcgg ttctggaact tttggacctg tatatcatgg gaaatggagg 180
ggctctgatg ttgcaataaa aagaatcaat gacagatgtt ttgctgggaa gccatctgag 240
caagaaaaaa tgcggaatga cttctggaat gaagcatcta accttgctga tctgcaccac 300
cccaatgttg tggcctttta tggcgttggt ctagatgggc ctgggggatc cattgcaacg 360
gttacagaat acatgggttaa tggctcactt aggacggctt tgctgaagaa ttccaagagc 420
ctgga 425

<210> 4350
 <211> 269
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB103-056-Q1-E1-C5

<400> 4350

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 aatttcggcc tgtctacat cacaggctga tgggccatca tattacgttt acgaggatga 180
 agtcctactt tgatgcaggc aaccttcttc atgcctcctg taaccagaat ggcttctgca 240
 ttaacgcagc ttaacttgct aatctacaa 269

<210> 4351
 <211> 353
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB103-056-Q1-E1-D11

<400> 4351

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 cgcaaatcag actgggaatt caccagagg tgcggtgatt ggcgcgcgcc cctgaagaat 180
 tttgtagcgt tcgatgctaa ttatttgaa taattggttc gggcagcctt aaccgggtaa 240
 agttgctgtc tacaaggctg aaaagtttag aaaattgtgt caaacctcag gaacaacccc 300
 tttgtaattg ctgaagaagt gggcagttca tctggtattg caccaaaaaa gaa 353

<210> 4352
 <211> 368
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB103-056-Q1-E1-D2

<400> 4352

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 cgtcggaggg ggaatcgacc acggacggct tctacatcaa caccatagcc cctccgatga 180
 gttgtgagta gtttaccaca gacctacggg tccatagtta ttagctagat ggcttcttat 240
 ctcttttttg atctcaatac aatgttctcc cctctctta tggagatcta ttcgatgtaa 300
 actatttttg cgggtgtgtt gtcgagatcc gatgaattgt gggtttatga ttaagcttat 360
 ctatgaga 368

<210> 4353
 <211> 404
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB103-056-Q1-E1-D4

<400> 4353

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 gaacaagacc ccgtggaggg ctagttgagc agtagcttaa gatttctagg atcacaacca 120
 aatgtaaata aaaatatgat atgcatatga tgtcctatgt ataacatcca aattgaaaat 180
 tgggatgtta caaactca cattctgata atgaagaaga taatgatgag gttcatgaaa 240
 atactcaaac aaatagtaat gaaccagaca atgatgttga gatagaaccg ccagttgatc 300
 ttgataacc acaacctaaa aataaaagat atgataatag agacttcac gctagaaaac 360
 acggggaaaa caagcgacca gccgagaaga aaaaagcggc cgct 404

<210> 4354
 <211> 446
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB103-056-Q1-E1-D5

<400> 4354

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 agatacccag aacgtccata accggggaca caactaacca tgattagttt atacactctg 120
 cagaggtttg tgcacttttc ccacaagac tctaatacat ccatggtcaa agaaacgaga 180
 cacagtgttt ctgagacaat aactctttac tctgggtgga cagctacacc tactttcccc 240

tacatctgct agccacctc taatagaggt ctcaaatgt actcaactat gctagagccc 300
 ataatagctt gtggatgctc acggaagttt ctagcatgaa caatcttatg atccgtttga 360
 gcctggggtt cggtccatat gagaatcaca cagtattcca ggatttccac aggcacagggc 420
 atcaactgggt tccccaagtg ccccaa 446

<210> 4355
 <211> 436
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB103-056-Q1-E1-D6
 <400> 4355

tcgacgggcg cagattactt catggagacg tctgtcaagg agtgtggaca tgcctggaag 60
 tacctgcaga aggagttgga ccttctgtca cttgatcttg atctctctgc ttgtcgaaac 120
 caggaggctt ggtgacattt aatgggggta gcctctgcat aaacacctcc tcacaacgtc 180
 tgatttttga acatcctcca ctgctactga catgagatct tgcttctgcc caatggtagc 240
 tacctcagtt tggagtactg tcatgtcaga tcgaagggat tcagtctcct tctgattgtc 300
 aaggacctcg gatctcatag ctaggagatc ctgaatatca gattcttcca tgggtgccctt 360
 gctgcgaccc atcgtgaagg aaactgggca gagatttgct tggttgttac ctaacacaga 420
 tgccgctgga aagtga 436

<210> 4356
 <211> 413
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB103-056-Q1-E1-D7
 <400> 4356

cggggaaaaa gcacaaggcg gagaagcggg cgccggcgctc cgaggaggcc ggcggcgagg 60
 ggaagacgag gggcaggaag aagggcagca aggccaagaa gagcgtggag acgtacaaga 120
 tctacatctt caaggtgctg aagcaggtgc acccagacgt gggcatctcc tccaaggcca 180
 tgtccatcat gaactccttc atcaacgaca tcttcagaaa gctcgccggg gagtcggcca 240
 agctcgcccg ctacaacaag aagccacca tcacgtcccg ggagatccag acctctgtgc 300

gcctcgctct ccccgaggag ctgcgcaagc acgccgtctc cgagggcacc aaggctctca 360
ccaagttcac ctctcctaa acaacttagg cttgatcctc gtcgcctcat gcg 413

<210> 4357
<211> 273
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB103-056-Q1-E1-D9

<400> 4357

cggggcagaa ccacaaggca gagaagcggg cgccggcgac caaggaggcc ggcggcgagg 60
ggaagacgag gggcaggaag aagggcagca aggccaaagaa gggcgtggag acgtacaaga 120
tctacatctt caaggtgctc aagcaggtgc acccgacat cgcatctcc tccaaggcca 180
tgtccatcat gaactccttc atcaacgaca tcttcgagaa gtcgcccggg ggtccgcca 240
agtcgcccg ctacatcagg aatcccacca tca 273

<210> 4358
<211> 411
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB103-056-Q1-E1-E2

<400> 4358

cgggtcacgg gaatggttgc aatacaccac cacatggggc aacgttcaac acgtataacg 60
caaaaagtcg ggactccgaa ttacgaattc tgggagcatc ctagataatt atgtcatcaa 120
aatggcgtaa caaaaggact gtcttggacg cacagactag atactcagta agctcctata 180
tgcaatccat tcccatcatg agataaatgc tccaggactt cactacgatg ggagagacac 240
ggaaatcaag tccccagat tctacagata cgtcgtgtca actcaggagg gttcgacatt 300
ggccacacg ggtgtgcact aatatataag cgtacatgtc atcactttta atgccatgca 360
ttattgcaaa atcttctgac atgaatgaat gcgatgcgcc tgtctcaaag a 411

<210> 4359
<211> 379
<212> DNA
<213> Triticum aestivum

<223> unsure at all n locations
<223> Clone ID: LIB103-056-Q1-E1-E3

<400> 4359

gggtccagcg cggtgttgcc atgaacagaa taggaaaatg aatattttcg aattattttg 60
aactaggcaa ggaatgtttt tgacacatth gatgaagata tgatccanaa catttatgag 120
aatttttttg gaattttttg aaaaacagaa atataggttg cctcaaaacc tagggcaaaa 180
actgccacat ggacatgaca cataggcana actgatgaga tggcgcttag tcatcacaac 240
ccaccacaat cctacaagct atgaccatct atattgggtca ttaacaacta gaaataaggc 300
agcggactaa gactgtttgc tttgtgacca tttcgtgtaa ggaaattacg gcctttctga 360
ccaaaatggt cccaatggt 379

<210> 4360
<211> 339
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB103-056-Q1-E1-E4

<400> 4360

cggtccacg cggcgggccg aagcaacaac tgcagtagtg gggcgcgcta ccccgcgcg 60
actcctctc gtctccgcc gccgcgctgc tccgcgattc gctaggtcat tgtagagcat 120
ctccgttcgc aaggtcacct aggagcgctt gctacgcttc caccaccatg ggagacgaga 180
cctccacttc tgctcagge tcggcccagg aacctgcage accggccctg cagggagctg 240
ggagtgtcaa gcagcagatc tccaacttgg tggctctgtc actccgtgcg acagtgcctg 300
aagtggatgt agaaccgata gttgaagttt gcacgggaa 339

<210> 4361
<211> 408
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB103-056-Q1-E1-E5

<400> 4361

gtccacgggg acacgcaaga accctagcag atcgctcgag ccctccgccg ccgccgcgcc 60
ttcagctctc tccttccttc accgattcaa gatgaagttc atcgctgcct atctgcttgc 120

ttacctctct ggcaacgcca gcccctctgc agaggacctg acatccattc ttgagtcagt 180
 tggttgtgaa atcgacaatg agaagatgga actcatgctg tcccaagtga agggcaagga 240
 catcactgag ctcttggtg ctggtaggga gaagtttgct gcggtaccat ctggtggtgg 300
 tgggtgtggct gtttcagccg ctgctcctgc tgctggtggt gctgctgccc ctgcagctga 360
 gtcaaagaaa gaagagaagg tcgtggagaa ggaagacagt gatgatga 408

<210> 4362

<211> 406

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB103-056-Q1-E1-E7 .

<400> 4362

ttcgtcggtc gacgggcggt attgacaccg acactcatcg ttatctttgc aagctaatat 60
 agccgtaaaa gcttctttat caataatata accttcagga atatcaggca tgttttcatc 120
 atcaatttca tcaacatgat gagtttcaat aatttctttc tctctagccc tagcaatttg 180
 ttcatacaaaa aattcactaa tgggcacagt agtatcaagc atagaagtag tttcatcata 240
 agtatcatgc atagcagaag tggcatcatc aataacatgc gacatatcag aacgaatagc 300
 tgaagcaggt ttaggtgtcg caagcttact cataacagga gtgaatcaag tgcagagcta 360
 gatggcagtt ccttacctcc cctcgtagtt gagggaaaaa tttttt 406

<210> 4363

<211> 400

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB103-056-Q1-E1-E9

<400> 4363

cgggcatgct caagatcaaa agaggatagg gcggcaacta tcctcaccga aggaacccac 60
 aagacccccg gcaggatcct tgccggggaa gccgcacac cgtggaaaga cccttgccgg 120
 gccacccggc aagaccctcg ccaagcgcac cggcagggcc actgccaggc ccgagccaac 180
 caagtctttg ctgccgttcg catgcagctg ccacccaga cagctgggca ggcacctgcg 240
 tggcaacatg caaccttcat ggaggctcca ccaactgcgc acctcagctg cctgcctgcc 300

aacagggcac cgcatgcagc gctggccagg gcgtgtgtcg aaacgagaac gggcggagac 360
 ggacgggaca gggctcgac acgtcccca ggccgcgaga 400

<210> 4364
 <211> 408
 <212> DNA
 <213> Triticum aestivum
 <223> unsure at all n locations
 <223> Clone ID: LIB103-056-Q1-E1-F1
 <400> 4364

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 tatgggtggc ggagtacacg agtgggttcc gatgtcagga taaccacgt ccatagctct 120
 catgtgaatg tggcaaggcc acaaaacaag ttttccatcg ccagatatcc aacagatcaa 180
 ctggtgttat ggatgcttct taaagatatt ttttgtcat ttcanacatc aaacaccaac 240
 tattcacaat ggagacagga aacgtgtagc ttctcatgtc aactaagtga gcctgccaat 300
 tgtggcaatg gaaggagggtg gcatgtcgcc tcattcatga ggctgttagt ttcataacag 360
 acattttcca gttgcatatc ttttgtaaag tgttcagact ggtttttt 408

<210> 4365
 <211> 430
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB103-056-Q1-E1-F12
 <400> 4365

gtccacgggc atagaaaata ttgttctctc atgcttcact tatatcattt tgagagtcc 60
 acaaaacagc atggtaattt tcttaaattg tgaaattagt cctaaatatg ataggcatcc 120
 aagatttgta aaaactttct tataagtgcg ttgaatacta agaaaagttt gatgcttgat 180
 gattgttttg agatatggag gtagtaaatt aaagttgtgc tagttgagta attgtgaatt 240
 cgagaaatac ttgtgttgaa gtttgcaagt cccgtagcat gcacgtatgg taaacgttgt 300
 gtaacaaatt tgaaacatga ggtgttcttt gattgtcctc cttatgagtg gcggtcgggg 360
 acgagcgatg gtcttttctt accaatctat ccccttagga gcatgcgcgt agtgcttagt 420

ttttgacgac

430

<210> 4366
<211> 186
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB103-056-Q1-E1-F2

<400> 4366

gggtccacgc ggatgaatga atccattgtg agaagagccc ttgtgatcat gcaccatagg 60
gacgaagtgg agtacaagag ggagcgccat gtgattgtcc gcaaggcttg agctgacctg 120
aaccgatgga gctaccatgg aaacctctgg ccaactgatg tgtgtgtaaa agtattgctg 180
acactg 186

<210> 4367
<211> 398
<212> DNA
<213> Triticum aestivum

<223> unsure at all n locations
<223> Clone ID: LIB103-056-Q1-E1-F3

<400> 4367

cggtcgacca tccgggtcga ctcttaggcg atactcagcc agtcccctgg gaacacctgg 60
catgtcagcg ggcttccatg caaaaatgtc ncagttctca cggaggaact ggatgagcgc 120
ttcttcttat tttaggtcga gtgttgtgga gatgcggggc ggagctgcat cggggtcggt 180
cgggtgaatg tgaacaggtt tcgtctcgcc ggacgactgg aatgcagact ctgtggcggg 240
tttcttcgat cgcagcaagt cactcggatc tgcgttttgc ttgtattctt cgaactcgac 300
cgctgtcacc tgggaatcgg caatcttggg gcccttctga tagcactctt ctgccttttt 360
ccgatcaccg gggacagtga ttactccttt ggggccgg 398

<210> 4368
<211> 391
<212> DNA
<213> Triticum aestivum

<223> unsure at all n locations
<223> Clone ID: LIB103-056-Q1-E1-F4

<400> 4368

cggggtccagg cggctgccaa aaagcggagg cggggcgagc tagaaccgca agtgactcca 60
gcaggcctag acttaatcag cagcctcccc gatgatatgt tgagagtcac catctccctc 120
ctcccagtca aatatggggc gcgaaccgtc ctttcccggc ggtggtgccc cctatggaac 180
tccagccctc tcgacctcat cgacaccac gagctctgcc atggctatcg caaaatcttg 240
gatgcgttct ccaagatcct cgacagtcac cttggtgata acccacaagt ataggggatc 300
gcaaccgttt tcgagggtag agtattcaac ccanatttat tgattcgaca caaggggaga 360
caaagaatat tctcaagtat tagcagttga g 391

<210> 4369

<211> 387

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB103-056-Q1-E1-F6

<400> 4369

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acagcgcttg taattgtagg ccctttccgc atacttcaca gcttggtgtc ttatgaggtg 120
ctgcagggca gcaggctggc ttgtgccgcc tcggtcatta ttatcatttg taacttggtta 180
gagtgcacat taatctcagg aggacataga cataatactt atgctgctgt tgttgtaacc 240
tgaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 300
aaaaaaaaaa aaaaaaaaaa tttataaaaa aaaaaaaaaa gaaaaaaaaa aaaaaaaaaa 360
aaaaaaaaaa agggggcccc ccaaagg 387

<210> 4370

<211> 388

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB103-056-Q1-E1-F8

<400> 4370

gtcgacggga aatcttcaaa aaagaaggac ttcaagttct agacggcgcc gttttgttac 60
tgttgctctt ccgcttccca ggaggaggat gtttccattt cttcctgtag cctgtactat 120

actctaaatc aagctgtgta tgtatactta gcctctggca aatgttgaag tgctggatga 180
 aaaaagaaat gaagctctgt agtccatgca tgagaacaag ttatgatatt aaatgtaact 240
 gctagcatta ttttattgct gttatgaaga gtgatgctaa gtttgctaaa aaaaaaataa 300
 aaaaaaatgg aaagcaaaaa tagaaaagga gataaaaaag gcatggaaaa tttatttcca 360
 attagaaaga tgtattagga aaaggggt 388

<210> 4371
 <211> 356
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB103-056-Q1-E1-F9

<400> 4371
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 tccagactgc cgctgctcag catgaggaga acgctaattg gcaggacctt gtcctcctgg 120
 atgtcatccc aatgtctctt ggtcttaaaa ctgctggagg agtcatgact gtgctcatca 180
 tcaggaacac caccatcccc actacgaagg agcaggctct ctcaacctac tccgacaacc 240
 agcctgggtg gctcagccag gtgtttgagg gtgagaggac tacgaccagg gatatcagcc 300
 tgctcggcaa gttatacttc ttctggcatc gcgcctgcac ccaaggggtt tcccca 356

<210> 4372
 <211> 391
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB103-056-Q1-E1-G1

<400> 4372
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 cggatcgagt cggcgagagc gagggcgagg acgatggcgg cgctccggt agcggtgagg 120
 aggttttgcg accgtgctc cgaggatca gcgggcattt acgagctcaa ggctgccaag 180
 gaattccccg acattgatcc tgagcatctc aaggctgcca ggaaattctc caaacttctg 240
 gtcaaggatg ccgatgctac ggctctgaat gtctccaaga ttctccgggg cagtccagtc 300
 gatggtcata aagatgtaac ccttcgtgaa gaatgtctac ggctctgaat gctacggctc 360

tgaatgtcca cggtcttgaa tgcctcatg a

391

<210> 4373

<211> 419

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB103-056-Q1-E1-G10

<400> 4373

gggccacggg ctggaggaag gggtttcccc ttcttgacc ctcggcctc cccagttggg 60

gcggccttcc ttttcttccc tcccccgct agagggggag ggtctattc ttcctctcc 120

tcatcttcat gggaggagt cgtcttgag tcgtcggat agggatctga cacctccagg 180

tggcaggcac tcttccgagt ccccggtggc atcttcttga ccttcttctc cggcaccaca 240

tggggtgccg aaaccagcag ctcgccaaa cgagcgtccg ctgggccttc gggcaaagga 300

gccggatagt tgatctgttc ggacgtctcc tgccaatcct gtcaaaggta agggagctta 360

gatcccgcat ggagtcaaac tatgaaaaac tgataccctg aaaaaaaaaa gagaaggac 419

<210> 4374

<211> 449

<212> DNA

<213> Triticum aestivum

<223> unsure at all n locations

<223> Clone ID: LIB103-056-Q1-E1-G11

<400> 4374

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ttggaaaaca gatctcctcg caagtttcca cgaaggtggt tccaggcgat tcatgtaatg 120

gcagaatgac taaaaggggtg gactcgaagt caaagaaact tgtgagatat ccagtaatga 180

agttgtggct tcggccaaga caattatcac taaagcaaca aaagaagaag cataagaaaa 240

ccaaaaagcg tgtaaggac acggccagtg ttgattgttc tggtgacaac agcagtgagc 300

agcaaacatc aacatcagca actgtgccgc caaaaactgc agaacttaca tctcgtaaac 360

ggaaatattc ccatgccagt gtaagttctg aaaacaacac ccaagcgctc aaagacaggc 420

agcaagctgt tggagcaagt antgctggt 449

<210> 4375
 <211> 434
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB103-056-Q1-E1-G12

<400> 4375

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 tgagttcttt ttactaatgt tgagtccatg gattatacgc acttttacct tcccatcatt 120
 gctagcctct tcggaaccgt gcattgccct ttctcacctt gagagttggg gcaaacttcg 180
 ccggtgcatc caaaccctgt gatacaatac gctctatcac acataaacct cttatatct 240
 tcctcaaaac agccaccata cctacctatt atggcatttc catagccatt ccgagatata 300
 tttccatgca actttccacc attccattca tcatcatcat gacatacttt acttttgtca 360
 tattgccact gcatgatcat gtagttgaca tcgtatttgt ggcaaagcca ccatgcataa 420
 attttcatac aagt 434

<210> 4376
 <211> 425
 <212> DNA
 <213> Triticum aestivum

<223> unsure at all n locations
 <223> Clone ID: LIB103-056-Q1-E1-G2

<400> 4376

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 cgacattttt atgcattaac tgagttttca atgcatttat gtgcataatt caaatttgaa 120
 ctactgcaca tgctccagtg catataaatt ggttgaaaaa tcaaattctt gtccttgggt 180
 gcatgcttag gtcccatgca agaaatggga atgaatttca aacaccaggg caccattgat 240
 tgctagtaaa acattgagat gcctggtttt taaattctag taaattcaaa actcgtctga 300
 aattcatgaa acttggcatg ctatcatgga gcgggatcaa catgccgtgg taattttttt 360
 cccatttgga gcaagtttgg gtanatgctt ctcacaaacc agagcttctc aaaacaagca 420
 tgatg 425

<210> 4377

<211> 362
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: LIB103-056-Q1-E1-G4

 <400> 4377

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 gatcatgaga ttcttatcag cagtcgcgga catgacagtc cgtgacatct tcgtctgcag 120
 cctcgccttc atgatgtgtg gatggggcct gcttcagagt gtcacgcta tccatcttgt 180
 cgtcgagatg gtcgggctgt gggggctctg gaacgctctc gcccggggct atcagatcct 240
 gatggggctc ctgctgttct agcacatcgc gttccttgcg tggttccccct ttgtgtccga 300
 gttccagagc tggatgcttt tctaccagtc gttcagcagt cgcctgcaga tctcccgtat 360
 cc 362

<210> 4378
 <211> 384
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: LIB103-056-Q1-E1-G5

 <400> 4378

 ttgcgccgtc gacgggttgc atgaatagga tctaattaaa ttgtgggatg ggaagtagtt 60
 gaggtagtagt ctattacctg ttttattatc aaacctttgg gagttacttc tacgtttgcc 120
 attatgctat gctatgctag tagacgtgga ttgggtgagt gatattcatg acagatgtga 180
 gtttttttta ttaatggttt atctaagatg gcaacttaaa cacagatctg ggtggattga 240
 ggtacctggg tattccaggg ttgcctgttt cttttggacc gccaccagg ctcaaaggga 300
 tcatgagatt attcatacta gaaactttcc tgtgcagcca caagccatta tgggctctgg 360
 catagttgaa taagtcgtgc gaac 384

<210> 4379
 <211> 383
 <212> DNA
 <213> Triticum aestivum

 <223> unsure at all n locations
 <223> Clone ID: LIB103-056-Q1-E1-H1

<400> 4379

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cgggggaaga tgccgagttt gaactctcga ggaagcagat gctggcgact ctggatgtca 120
tgatgggagg gctggtggcc gaggagctta tagccggaga aggcggggtc accactggtc 180
cctcaactga tctaagcgag gcgactcagc tggcgaccga catggtcacc aagtatggca 240
tgggcaagcg ggtgggcttt gttacctata gcaatggcgg tgatgctagc agtggcaagg 300
cgaccaacat gagcgagcgg atgtcagaac tggttgacga ngagggtgaaa gatttactgg 360
acaacgctta cangaacgcc aaa 383

<210> 4380

<211> 364

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB103-056-Q1-E1-H10

<400> 4380

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tgcttatttt gatgaatcta tggctagtaa aatagtttat aaaccataga gaagttggag 120
tacagtaggt ttaacaccaa taaaaataaa gaatgagttc attgcggtac cttaaagtag 180
tattttgttt tctttctcta acggagctca cgagatttct attgagtttt gtgttgtgaa 240
gttttcaagt tttgggtgaa ttcttttgat ggattatgaa acaaggagtg gcaagagcct 300
aagcttgggg atgcccattg ccccccaag ataatccaag gacatcaaaa agtcaaagct 360
tggg 364

<210> 4381

<211> 304

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB103-056-Q1-E1-H2

<400> 4381

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tttcagacct ctccaccaag ggccacgaaa ttccccctct cttcctccat atatacatcc 120

cttaaggcaa cgttttagact ttgggttttg tttagattaa aagttcgcca tagctgcaac 180
 ttgcgcgtact tcgtttgtgt tcaacgacca gacaaaggcg tcacagaacc ccaccttgat 240
 caataaagct ttcattcttat attcgcaata tccagattgc aatcttaggt tcttgcatgt 300
 tctt 304

<210> 4382
 <211> 279
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB103-056-Q1-E1-H3
 <400> 4382

attggatgat ataatcaatt tgatgcttga taattgtttt gagatatgga ggtagtgata 60
 taaagtcatg gcaattgggt gaatatgaaa ttaaagaaag cttgtggtga agtttgtgga 120
 tcccgttaca tgaacttagg ggaaccgctt tgtgaagaat ttggagcaaa attttattta 180
 ttgagtgtcc tccttaagag tggcggtcgg ggacgagcga tggatattttc ctacaaatct 240
 atccccctaa ggaacatgcg cgtagtgctt tggtttttg 279

<210> 4383
 <211> 242
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB103-056-Q1-E1-H4
 <400> 4383

cgcattgtgc ttcaagcgtt ttacgatacg ctttgcctca tggcgcggtt gcaatccatg 60
 gatacaaaat tagtatactg tataactatctt gaaagtcgaa ggcggggctt ttctgctgca 120
 gtaggtggca gggcagttcc acctagtcgg ttctacatag atacgagaag accagtgagt 180
 acgttgcttc aaacgcacgg ctgtgtgatt tgacaacgag ttactgctgg acaggtgggg 240
 tc 242

<210> 4384
 <211> 402
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB103-056-Q1-E1-H5

<400> 4384

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actgggtgag ggacgtcgcg tggggcgcaa acctagggct accaaagtcc acgatcgcca 120
gcgcttctca ggatggaacc gtcgttatct ggaccgcgcc gaaagaaggc gagcagtggg 180
aaggcagggt cctgaatgat ttcagaacct ctgtttggag gctgtcgtgg tcgctgacgg 240
gcaacatctt ggcggtctct gatggcaaca acaatgtgac cctctggaaa gaagctgttg 300
acggcgaaatg gcagcaagtg actaccgttg agccatagat gttctgcgtt ctgcctctag 360
gttcttttagt aattactata tcataaccaa tgtaattttg cc 402

<210> 4385

<211> 382

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB103-056-Q1-E1-H7

<400> 4385

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gttcgcgctt gaaaatggat gtagcaaaaa cttcgccgat attagcaaaa tccaactatg 120
gttgacgcaa agatcatcat cgccgccgtc gcgaggteat agctctgcct tgatggagggt 180
agcacaatat ttcgctggta gtaccacaac acatctacgg ttacagcaaa acttgttatc 240
gccggtgcc cactccatc ctctttgtat aaaaaatgaa gccggttgta gcaaacaacg 300
gagttgggtg cagcttttcg gcgtcgtcca tggcttctgt agtctatggt tgaagctttt 360
tttgccgccg gttgaatctt tt 382

<210> 4386

<211> 328

<212> DNA

<213> Triticum aestivum

<223> unsure at all n locations

<223> Clone ID: LIB103-056-Q1-E1-H8

<400> 4386

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agaccttggc ttgctcctcg actgggagtc acagtacctt ggggcactct gcctcnctcn 120
cagcagccgt cncagcccc gtctttctac tggcctcagc atcaggccta cagcaatttg 180
ccccacagt cttgaagata tgtatgcttc agagatggca atgtcaccga gggtcaccan 240
tgatcaaggt cactcagcct actcancaag ccacanatca gccatcctta acaggcttca 300
tcagcagaag ggtctcctct cacctgtc 328

<210> 4387
<211> 432
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB103-056-Q1-E1-H9

<400> 4387

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tttttgcaat aagtatgtga gttctttatg actaatgttt agtccatgga ttatacgcac 120
catcaccctt ccaccattgc tagcctctct agtactgccc aactttcacc ggtaccataa 180
accaccata taccttcctc aaaacagcca ccatacctac ctattacggc atttccatat 240
ccattccgag atatattgcc atgcaaattt ccaccgttcc gtttggtatg acatgcttca 300
tcattgtcat attgccatgg atgatcatgt agttgacatc atatttgtgg caaagccacc 360
gttcataatt tttcataca tgtcactctt gattcattgc atatcccggt acaccgccgg 420
aggcattcac at 432

<210> 4388
<211> 351
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB103-057-Q1-E1-A11

<400> 4388

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aggctcctcc ctgggagagg tgcttggtg agcttgatgt ttgtgatgct gtgtagtgaa 120
tgatgcagca tatggactgt atcatctgtt tgccatgtag cgctgtaagc catgtgtttg 180

gtttcagcaa ttgttttagct gcatcaatth acaccgtgcg tcaagttcat cgggtgtcgaa 240
gctgacatcg tgtctagaat gcaccttgcc ttggaactga cgttttcaa ctaatcttgt 300
ttacctcata atctgggtgta gctaaaaact tgggtgtgcct aaaaaaaca t 351

<210> 4389
<211> 390
<212> DNA
<213> Triticum aestivum
<223> unsure at all n locations
<223> Clone ID: LIB103-057-Q1-E1-A2
<400> 4389

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gtggtttttt tgcaaaaaaa caaatacaact gccccatgga caacttttcc cggacggagg 120
gagtactagt taaatctgag ctatgggtgt gaagcactga tatgccagta catttgattg 180
tgacctattc taattttgta cctgaacttt ttttagaaag ggttgtacgt aaacttaatg 240
tgctagcaga acttattgtg ttgtctatct gttttctttg cacaacattc aagatatttc 300
cccatcattg ataaagacga tgaaccgtta tgtacgaact cgttggtttc aacatagccc 360
ttencgtagt gatccgctgc ttccatcctg 390

<210> 4390
<211> 391
<212> DNA
<213> Triticum aestivum
<223> Clone ID: LIB103-057-Q1-E1-A4
<400> 4390

cggctgtagt ggaggaggcg gtgccggctg gccagcaggc ggaggaggaa gcaatccttc 60
acccttgag attcagggtta gccagtgaca cttcagggtg gtgtgggttg acggcttcgc 120
gccactatgg aactttagg gagcatcaag ggttttctca taggagaagg cgggcagcca 180
agcaggcttg ccacccttct gacgcttggg gccgggttga ccctctggct gctgatcttc 240
cactgacgcc acttgccagc tgggtggaagc cggctgcggg gccttgcgct tgttgtcctt 300
ctgttgctgg caccgactgt tatcaccaac ctgcgtctgg ggagccatag ggagcacttt 360
cccagatgcg tccactcgga gctccgactt c 391

<210> 4391
 <211> 411
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: LIB103-057-Q1-E1-A5

 <400> 4391

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 caacagtgac gacgacgacc tggagtacac gatgaacaag atgtctataa ccccgcacca 120
 ctctttctta caccagatgg ccatggacag cgacggcggc ctcagcatgc cagcgaggat 180
 cagaccatcg acaagccctc cgtcgcggtg ggccatgtca ggagaatcac catagatgga 240
 agaaacagct ggataacttg ggctgtacaa ggagggtatg actgtcaaac tgatacgggg 300
 agcttagttt gtagtggggg caaagaaccc attcatttgc agtgtattca gcccaagtaa 360
 ttcgaaaatt ttgggttgag agtgtgaagt acagatgttg ttagaaaacg t 411

<210> 4392
 <211> 321
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: LIB103-057-Q1-E1-A7

 <400> 4392

cgggggatac gagaaagatt ccggtcctgt ttcttggcgc accgcggcga ccggccgacg 60
 agcatccacc gcctccaagc cgctctctct cactgcagca gcgtagcgac ttcttctctc 120
 agctgcagag cctctccgca tcaagagttc cttgccatgg agcatggact gtggtcgagc 180
 ggagctagcg acaagaacaa ggccatggtt gagcaactgc agagatatgg ggtaatcaag 240
 tcgagcaaag ttgcggaggt catggagacc accgataggg ggctgtttgt gcctcagggt 300
 gggctctcca attttgatag c 321

<210> 4393
 <211> 200
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: LIB103-057-Q1-E1-B1

<400> 4393

caagaggagc agtggcaggg agagaaggtg aagactacgc catgtgagtt gctgatgttg 60
tgccttatgc ggtggggata agggatgtgt gatgtgcttg tgtggcgaaa ggcatgagt 120
ggcttttccct ttttgcggga ggctgttcat ttttgtctat tctagtttta tattcacgat 180
acatacaatt agttatcacc 200

<210> 4394

<211> 356

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB103-057-Q1-E1-B2

<400> 4394

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tatgaacgca tacacgcaca ctctatccct atgagcatct tcgaaatact gattcgacat 120
atcattttta aaacttacga agtcatcgta gtcacctacg tctcatccca ctgaatacgc 180
attgccagaa atcttgaagt aaatccagga acacatgcgg gcaccaagac ttaattctga 240
tgggttgga taccacagtt cctctaacca tccaatcaca ggggtgggttc gctacgaagc 300
acgttattga aatactacct ccctctgggt gcacaggta tacacgtagt tctacg 356

<210> 4395

<211> 55

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB103-057-Q1-E1-B4

<400> 4395

agaccaccgc aggcaagaag cccaaggccg aaaagcggct gccggcgggc aaaac 55

<210> 4396

<211> 352

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB103-057-Q1-E1-B5

<400> 4396

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 ccagacctcc gtcgcctcg tctccccgg ggagctcgcc aagcacgccg tctccgaggg 120
 caccaaggcc gtcaccaagt tcacatcctc ctagactgac ggcgtgcagt tggtttctgc 180
 atctgcatct gtactcttga ctctgcttat ctatctatct gcaagtagtg gtgggtggtag 240
 tagtacctgt gctgggtgat tgccaacgct ttgttgcccc gttggttgta agagctgaag 300
 ttgctgcttt ggcaactga aatctatcta gaactgaagt tgtggtccta aa 352

<210> 4397
 <211> 379
 <212> DNA
 <213> Triticum aestivum
 <223> unsure at all n locations
 <223> Clone ID: LIB103-057-Q1-E1-C1
 <400> 4397

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 accaaaagac atgaaaggaa gccatagaat ccagaaccca cggggatgta cttattgtg 120
 taatggtggt agctcagcgc cataagacaa cacacatoga agaagaacct gaagcggcga 180
 ttgtacgttt taagtctcac aatatcccc tcagttgagg agacaattga tgatgtcaaa 240
 gaggtgtgta ntgtgctcca tgttgcgcat gtggcgcttc ttcttgaagc aaccagattc 300
 acgtgaccat ccctgttgca gtagctgcag tgactgcggg agtgaccctt gccaacagaa 360
 ggagaaggca agaatggtg 379

<210> 4398
 <211> 280
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB103-057-Q1-E1-C2
 <400> 4398

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 cccaaaacct agtcgccgtc gccggcgccg ccgcagccgc agcagccatg aacgccttca 120
 ggttcctcgg ggacatgacc cacctcttct cggtcacgt cctcctcctc acgatctacg 180

ccaccaggctc atgctcaggg gtgtcaagga ataccagga gctgtacctg gcgggtgttcg 240
 tggctcgcta cctcgacctc ttcactgact acatctcgct 280

<210> 4399
 <211> 160
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB103-057-Q1-E1-D1
 <400> 4399

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 agcagtagct taagatttcg aggatcgaag cccattgttg ataggatttt gatatgcata 120
 tgatgtccta tgtatagcat cgagattgat aattgggatg 160

<210> 4400
 <211> 351
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB103-057-Q1-E1-D4
 <400> 4400

gcaggccacc aggtccacca ggaatgcctg ctattgagta catgtggctc cgaactccca 60
 ttttggtgaa ttgactgat tctgcaccgt cacttgcctt gtaaccaatg acgccgtgct 120
 ggatcagcat gtaggtgtat ccaagtgtgt agaatcttgt ccttttactt agcccgcgca 180
 cttcgcagtc ttgactatg aaccatattg cgcagccggg ttacactaca tccgacagga 240
 tgacaatagg ccatgtacac atatggttaa taaaaaacgc ttgcaattta attacctact 300
 ataccaccgt cctgggttaa gtatgattta actaataaaa tatgaatgca t 351

<210> 4401
 <211> 236
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB103-057-Q1-E1-D5
 <400> 4401

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cggtgatgcg cgccgcccgt gctctctgca gatctgactg agggtcagca agtttttgaa 120
gataatgcac aaacttttaa attagtttct tcgtttatc tcttagattg attctcttgg 180
ggtagcactg atagctattc cctccgttcg gaattacgtg tcgcagaagc agaggt 236

<210> 4402
<211> 410
<212> DNA
<213> Triticum aestivum
<223> Clone ID: LIB103-057-Q1-E1-E11
<400> 4402

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aatcgatttc ctccgttggg tttcccgac ttcattgctgt ttgagaaaca gatgaccgag 120
acacagtctt tcagaagcat taactctaac tccgggtaga cagtaccaac ctacatccct 180
ctacatctgc gagcctacca cttgaagagg tcatgcaact tactcaacta tgtttagagcc 240
cataatagct tgtggctgca cacggaagtt tctagcatga aatatcttag atccctttga 300
gcctgggtgg cggaccgtag gattgtcaca cgggtactcc gggatatcct aggacaacac 360
tggattctcc aggtgcccc acaagcaatc cacctagatg tgtattaaag 410

<210> 4403
<211> 417
<212> DNA
<213> Triticum aestivum
<223> Clone ID: LIB103-057-Q1-E1-E2
<400> 4403

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agttccttca gcagtgggat atggtgctct gtatctgttg acagcttttc ctgtcattat 120
tggaatatca gttgtgctga tccttttcta caactctcta cagtagcatc tgctcacctt 180
tgtttctgaa gaagatgccg cctttttctt gtaaagccga gttacaacgc tgctgaatga 240
gcaccccttt ctctgtctca tagtaaaata gtttctgcaa tggatgaca acattgtaaa 300
gccttgaggt tgtacactac acgaaaaagg aaaaggctct gaagtattgg ctttttctag 360
gaaactgaaa gttgattaag aaaaacaagg gaaccagtc aacggaaaaa gcggcgc 417

<210> 4404
 <211> 417
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB103-057-Q1-E1-E3

<400> 4404

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 cctggatcag taatgctgac accacacagt acatcgaagg atttatagca gagtggcaat 120
 cacacactta ttacatcggt gtctcaaaga gaacttatta caataaatat ggcttaaggc 180
 catctaataa cgataacagc ggaagactcg gaagataaat ggggccatca actccaacgg 240
 catcactgag tatagaacca cgacctaaaa gcaccttact cgtcgtctga aaagtctgca 300
 acatgaaagt tgcagcccga aaacgggtca gcacatggaa tatgctggca atgtaacaca 360
 tagagagtaa tggaatgaaa caactatact atatgcatat atggccggtg gaaaact 417

<210> 4405
 <211> 392
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB103-057-Q1-E1-E4

<400> 4405

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 acttctctggc cgccagatc tcacgagac ccagtgcggc cgctggcgcc gccgtcagcc 120
 gtttcttctt ccggcgatct tcgacgacct tccaagatcc caciaagtca ccgagagtaa 180
 gagcagtgag acgcacctta ggtaatggtc ccttccatgg cctgatcgct gtcgtcgccg 240
 ttctctgatg aacaactcgc cggaccatct cgtttttctc tcctgcatgt aaaccgatcc 300
 ttgtcggatc atcaagggga atcaccttgt cgacagttaa tgacacgccg tcctcatcgt 360
 aactgaatgg aaaaactcgc agatcaagtc ag 392

<210> 4406
 <211> 392
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB103-057-Q1-E1-E5

<400> 4406

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gaactggttc atttgggatt gtcttccagg ctaagtgctt ggagactgga gagactgtgg 120
ccatcaagaa ggtgctgcag gatcgccgtt acaagaaccg tgagctgcag cttatgcgct 180
ccatggacca cccaatgtc gtctctctga agcactgctt cttctcgacc acaagcaggg 240
atgagctgtt cctgaacctt gtcattggagt atgtccctga gactctatac cgtgtgctca 300
agcactacag caatgccaac cagcggatgc cgcttatcta tgtcaagctt tacatgtatc 360
agcttttttag agggctagct tatgttcata ct 392

<210> 4407

<211> 371

<212> DNA

<213> Triticum aestivum

<223> unsure at all n locations

<223> Clone ID: LIB103-057-Q1-E1-F2

<400> 4407

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acatgcccat gatcaggaaa acataaccat catgcaacac ttgagctagt cttagaggcc 120
agactangaa tacatctttac cgctttattat tccacatgtg catatgagtc cttcctccga 180
gcctcggtgt tattgcagac tcgagaacca taacagttat agcatggaac ataaacataa 240
ttatgaactc ggagataaat aatatcattt attattgcct ctagggcata tctcctacag 300
aaaacacaca aaaaagtata agaatacaac acagcacatt tagggcatca ctaacaaaaa 360
ggaagctgtt g 371

<210> 4408

<211> 410

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB103-057-Q1-E1-F3

<400> 4408

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ttgttgtaac atgaaaagcc agcattcaag tttcagcaaa tattatgaac taaccatact 120
 cacaataaca cataggtctc acaattactc gtatcaatag cataatcagc tagcgagcca 180
 taataataaa actcggatga caacactttc tcaaataat cataacatga tataacaaaa 240
 tggatatctcg ctagcccttt ctgagaccgc agaacataaa tgcagagcac ctttaaagat 300
 caatgactga ctaaacattg taattcatgg ttaaagagat ccagtcaagt catacccaat 360
 ataaaccaat aataatgaat gcaaatgaca gtgtgctccc cagcgggtgc 410

<210> 4409
 <211> 412
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB103-057-Q1-E1-G2
 <400> 4409

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 aacatcattt tggctgatag tgtcaggcat ttctttcata ataagttggg tttgataatg 180
 aagaatcaaa aaagatggcc ctgggtttttt ttgttcaaag agagatagat ggccctagag 240
 ttgggaacca agtaatgggg gaatgcttct gtgtcattgt gtctatactt ttttcttcta 300
 gcagtgtatg tttagatggg tagagtccat gtgaagtggc ttctaaactg ttccatcaga 360
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<210> 4410
 <211> 401
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB103-057-Q1-E1-G4
 <400> 4410

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 atacctagat ctatccttgc ttttatgcct acctaggggc gttaaagat agcgcttggt 120
 gggaggcaac ccaattttat ttttagtttc tttgtttttg cttctattta ggaataagta 180
 atccatctac cttctgttta gatgtggttt tatcttttaa ctagtgttg tgccaagtta 240

aacctatagg atcttcttgg atgatagtta tttgatcttg ctataatttc cagaaacttt 300
 ctgtgtcacg aaaaaaattg ttaaaaatca ccagaatgtg attccaatgc tactgattaa 360
 taaaaaattt ggctaagtat tcctaatttg gctgaatttt t 401

<210> 4411
 <211> 301
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB103-057-Q1-E1-H10
 <400> 4411

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 ggagacggtg aagacgcgga tcctctgttc catttgagta gcgtggcgac ggacgtttgg 120
 gtggacggca gcttgctcct ctgattgttt tgcttctgat gtaaaaaatg ttctctctgg 180
 tctgctgccg cgacatcaag gggacctgct taatttgttg tgggtgtgcc tacctggtgc 240
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 t 301

<210> 4412
 <211> 82
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB103-057-Q1-E1-H2
 <400> 4412

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 ccgcttccca ggaggaggat gt 82

<210> 4413
 <211> 82
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB103-057-Q1-E1-H6
 <400> 4413

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ccgcttccca ggaggaggat, gt

82

<210> 4414

<211> 362

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB103-057-Q1-E1-H8

<400> 4414

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ggttagtcat aaaatcctac ttaaaacttg tagatcactg aatatgatat gtttgattcc 120

ttgcaatagt tttgcgatat aaagatgggtg atattagagt catgctagtg ggtagttgtg 180

gattagtaga aatacttgtg ttgaggtttg tgattcccgt agcatgcacg tatggtgaac 240

cattaggtaa cgaattcgga gcatgaggta tttattgatt gtcttcctta tgattggggg 300

tcagggacaa gcgaggggtat tttccaagaa acttatcccc ctaggggaat gcttagtatt 360

ac 362

<210> 4415

<211> 431

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB103-058-Q1-E1-A10

<400> 4415

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cttcgcgcatc aagagatcca cacagctgaa gaagctgatg aacgcttact gcgaccgtca 120

gtcgggtggtt ctcaactcca ttgctttcct ttttgatggt cgtaggetcc gtggtgagca 180

gacccctgat gagcttgaga tggaggaagg cgacgagatc gacgccatgc ttcaccagac 240

cggaggggtgc tttcctggcc cttagaagga gcttgctgca gcctggctgt tctatgtcgt 300

atgctacctt tagaactaga gtaaaatgta agaagtgaaa gaacttgtga ggctatggtt 360

ctgtgccata gcctgagggg ggggtctggag gtgaaacaac atcggagtac tgttgatgtc 420

gtgactgaac t 431

<210> 4416
 <211> 418
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB103-058-Q1-E1-A11

<400> 4416

tacgggtcgaa aatacggggc caagtcctac tggcaacggg agaggcgctg acatcactct 60
 caacccaag gttccccatt tcgctaaccg gaatccggac ttgttggtcc tgcaattcaa 120
 ctagaagaag cacaattcca tgtgctacag cctcaatgtc aatgtcctcc ctttcttcag 180
 gttctacagg ggagctcagg gcagggtcag cagcttcagc tgcaccaatg caaccatcaa 240
 gaagttcaag gacgccctcg caaagcactc gccggacagg tgcagcctcg gccgggcacg 300
 ggggctcgag gaggcggagc tcttggtctt ggctgcaaac agggacctgg aattcaccta 360
 caacgagaag ccgacgctgg tgccgatcgc cgaggccatc caaatggaag ctgcctcc 418

<210> 4417
 <211> 393
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB103-058-Q1-E1-A12

<400> 4417

gggtcgaggc ggattactac agaaagtctt atttttgaca gattagggtc ccaatgtggt 60
 gtttgcttat tttgatgaac caatgattat tatcgagggg tatgacccat agaaaatttg 120
 gaatacagta gatattacac caatatgaat ttacaaggag ttcacaatag taccaaattg 180
 gggattaatt tcctaataca aacggacctt acaattttcc ggtaaatttt tgtgttgtga 240
 agtttcaagt tttgggtaaa gattcgacgg actatggaat aaggactggc aagagcctaa 300
 gcttggggat gctcaaggca cccaaatgta atattcatgg acaaccaaga gcctaagcct 360
 ggggatgccc cggaaggcat cccctctttc gtc 393

<210> 4418
 <211> 400
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB103-058-Q1-E1-A3

<400> 4418

tcgacgggcg agaacaaatg agattatctg ttgagttttg tgttgtgaag ttttcaagtt 60
ttgggtaaag atttgatgga ctatcgaata aggattggca aaagcctaac cttggggatg 120
cccatggaac ccaaataata ttcaaggaca accaaaagcc taaccttggg gatgccccgg 180
aaggcatccc ctctttcgtc ttcgtcaatt agtaacttta cttggagcta tatttttatt 240
caccacatga tatgtgtttt gcttggaccg tcttgtatga tatgagtctt tgcttttttag 300
tttaccctaa tcatccttgc tgtacacacc ttttgggaga gacacaacat gattcggaat 360
ttattagaat actctatgtg cttcacttat atcttttgag 400

<210> 4419

<211> 331

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB103-058-Q1-E1-A4

<400> 4419

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ctgatgtgtt catcgggtgga aatgtgcgtg caattgtttg ttcgtgtctt ggcccatgta 120
ttgtgtctgt cctgagggtca caatcttgct gtcatcatta cctgaaatga aaatgttgca 180
atcggttcta agaaaaaaaa cattaaatca acaacaaata ataacattaa atgaaaaata 240
aaattttaat caacacacta aaaaatgatt ttgcatgaaa aaaaaagggg gcccccaaa 300
gggttcaagc ttaatttacc cttgaaagca a 331

<210> 4420

<211> 406

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB103-058-Q1-E1-A7

<400> 4420

ctgtgtaact gaatctatcc aggggctggc atttttcgat aaagggtgaa ttttattgac 60
tcgaaataaa gcatcaagtt gatataaaca cgatgacaac atacacggcc tctgcataat 120
taagacgcac ataaccaata ccaacacaca cacaatgtac ccgctagcaa atagcaaggc 180

catatacgac cacagcattg cataagcgag agaaaaaccc gaagcgaagc gaacaaatct 240
 gcgatcgaca aactacaaca atgaccatat ccacaccaac catctcatga tatkataagg 300
 acaacgggggt tcttcaacag caacgccttc atgatgagag caacgctcga gagccgccgt 360
 catcggattc aaccaccaa ggtaagactc taggttttca ccctga 406

<210> 4421
 <211> 393
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB103-058-Q1-E1-B1
 <400> 4421

gagcatgcac gtaatgcttt atttttgatg acttataaat ttttgcaata agtagatgag 60
 ttctttttac taatgttgag tccatggatt atacgcactt ttaccttccc atcattgcta 120
 gcctcttcgg aaccgtgcat tgccctttct caccttgaga gttggtgcaa acttcgccgg 180
 tgcattccaaa ccccgatgata caatacgctc tatcacacat aaacctcctt atatcttctt 240
 caaaacagcc accataccta cctattatgg catttccata gccattccga gatataattc 300
 catgcaactt tccaccattc cattcatcat catcatgaca taactttactt ttgtcatatt 360
 gccattgcat gatcatgtag ttgacatcgt att 393

<210> 4422
 <211> 429
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB103-058-Q1-E1-B12
 <400> 4422

ttccatcaat gcaagcctct ctaataccgc gcacctttca ccgatatcat acaccaccca 60
 tataccttcc tcaaaacagc caccatacct acctatcatg acatttccat agccattctg 120
 agatatattg ccatgcaact ttccactggt cggtttacta tgacacactt catcattgtc 180
 atattgcttt gcatgatcat gtagttaata tcgtatttgt ggcaaagcca ccgttcataa 240
 ttctttcata gatgtcactc atgagtcatt gcatatcccg acacaccgcc agaggcattc 300
 acatagagtc atatttggtt ctaagtatcg agttgtaaga aaataaaagt gtgatgatca 360

tcattattag agcattgtcc caagtgagga aaggatgatg gagactatga ttccccacaa 420
gtcgggatg 429

<210> 4423
<211> 373
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB103-058-Q1-E1-B2

<400> 4423

cgggtccacg cggccacgtg acataggatc gctctatgca ccccggtgtca gcagcttccc 60
tgagaagagc ttctaccagg caacaccaga gaggcaccca tacccttacg aaaggcagtt 120
tgtgtacggc gctgaggccc accaccaccc tacgatgatg aacgcggctc cctacaccat 180
ctcaccgcc caccgcgct actacggtaa tggctacccg gtgcagtacc agatacctta 240
catccactaa tgggggagag ctacaatggc tctttccaaa ctageccctag cttttaacct 300
tccgctgttg ttgctattgt accaactcat ctaccaatth tgcctagctg aaaatagttg 360
gaccactcgc ttg 373

<210> 4424
<211> 379
<212> DNA
<213> Triticum aestivum

<223> unsure at all n locations
<223> Clone ID: LIB103-058-Q1-E1-B3

<400> 4424

ggccgcacac ctaagggagt tcttgatgca ggggtggct ccgcttcagg cgcactcatg 60
ccccttacgg atgcttggg tgtagacgac aagcttcacc tgaatctggt ggctttgact 120
gatgaggacc tggccgcatc tctcctcctc ttggtcgggg atgactagga gtatccgccg 180
agtgccactg tccccttggt actccgcaag gacagggcgc aggtgggtggc tactatgccc 240
acatttgatg ggcgctcct ggtgccactg gcacccttg tggccggga gcaacggcgc 300
cgggtggacgc gtcttcgggc gactccctca gangaggagg tgaggaggaa gacgaggagc 360
gtgactcgga ggtgacccc 379

[illegible]

<400> 4425

<210>	4426
<211>	426
<212>	DNA
<213>	Triticum aestivum

<400> 4426

<210> 4427

<211> 399
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: LIB103-058-Q1-E1-B9

 <400> 4427

cgggtacggt tacgaaatca aattagtctc tttcagtcta gtagtaaaat taatcattgt 60
 ttatatatca atgcatgaat gacagtacaa gtttggtata gggcttaaag aatagatggg 120
 ttacattcaa ttctcgtcg gaccggcact cagtacttat cattacatgg taaaactatc 180
 aattgcactt ggtggttatc acagagttga gatcaagata ctaacacaaa atcatagttt 240
 ggtggtggat tacttcatat tcatcatgga ggcagcggag aagttaatgg agaggctgga 300
 gatgtgacca agagagtttc tgggtgcagt ttccgggtcta atcttcgttc ggcggcagcc 360
 ttctagggtt tttgtctcat attaccaac ctaatttgc 399

<210> 4428
 <211> 430
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: LIB103-058-Q1-E1-C1

 <400> 4428

ggggtccacgc gacatgcaca attgatactc ttgcattcaa aatcattagt cttggatgat 60
 ttaagggttct attatgaagt aaaatatgta atattcataa atgaatacaa cgggtacgca 120
 atttttgaaa tggaggctat gtaatcatat gaggtaacac ttttaagtag cggactacaa 180
 tatccatttc tttttgtgcg cctctacact aacacgtcaa tgcattatgt ttaaagtaaa 240
 taaccaattg cactaaatta tctatttaca cgagaaatac ataggctgag cgtttgatcc 300
 cttttttgtg atcgcgccac tacaccgta cgattggccg cgcccgctg aatgtccaag 360
 ttatcgggtgc atcatccga gttattgtct ttttttctgg ggtggacttc acaccagtta 420
 ttaactgctg 430

<210> 4429
 <211> 434
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB103-058-Q1-E1-C10

<400> 4429

gggtcgaggc gaagatggac gccatctact cgacctcgtc ggcggcggcg agcggtctggg 60
gctacgactc cctcaagaac ttccgcgaga tctccccgcg cgttgccagtc ccacctcaag 120
ctcgtttacc tgacctatg ctttgccttg gctcatctg ccgtgggtgc ttacctgcac 180
attgccctga gcatcggtgg gatgctgaca atgctcgctg gtgttggaac catcgcttgg 240
atgttctctg tgccagtcta tgaggagagg aagaggtttg ggctgctgat ggggtgcagcc 300
ctcctggaag gggcttcggt tggacctctg attgagcttg ccatagactt tgacccaagt 360
atcctcgtga cagggtttgt cggaaccgcc atcgcttctg ggtgcttctc tggggccgcc 420
atcatcgcca agcg 434

<210> 4430

<211> 347

<212> DNA

<213> Triticum aestivum

<223> unsure at all n locations

<223> Clone ID: LIB103-058-Q1-E1-C12

<400> 4430

tccggcgggc cacacagagt aattcctcaa ttggacccaa cacaaaggcc aaattgtatg 60
gtgtacaaga tgcaggaaaa ggagaatttc acatacccaa cagttaaagg ctttggtoct 120
cttccaaaat ctacctcat tgcaaagca agagactcaa tcccagtagc aagagtgcac 180
acagcaatgg caagtggcag ggtcagaaga aatgcagatg cagcagcaga atctagtgcc 240
gggaaaaggc aagctagang agggactaga gctccaagag gaaggaggag tgctggaaga 300
ggaggagcta cagctccaat aggagggaag agtgctggaa gaagaag 347

<210> 4431

<211> 425

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB103-058-Q1-E1-C2

<400> 4431

ggtcgagata tccgggtcga cggggggaca aaattgataa tagcgacaag aaggaagggg 60

cttccgattc tgtggaggaa tcggggaaaag cttctgaaga gaaggcccct gagaacactg 120
atgccaagga agagaagtca gatgatgctg aggagttgaa agggtcagat gcacaatctg 180
ttaaaaagga tgataaaagc ctttcagaaa atgacaagga gccagtttca agggaggact 240
tcaaagaata ttttgccaaa tttggcacag tgcggtatgt ggacttcagt aagggggatg 300
attcaggata ccttaagttt gaggaatcga cggccgcgga aaaggcccgt gcatttgcag 360
ctcttgcgga tgaagggtgt ttggttatga agggccacct tgtcactttg gaacctgtgt 420
ctgga 425

<210> 4432
<211> 436
<212> DNA
<213> Triticum aestivum
<223> unsure at all n locations
<223> Clone ID: LIB103-058-Q1-E1-C3
<400> 4432

gggtcgaggc gtacggctaa gagaagacca ccagaattca aggggcagga agaagggcag 60
canggccaan aagggcgtgg aaacttacag attcaaaacc tcaaggggct gaagcaggtg 120
caccgggaca tcggcatctc ctccaaggcc atgtccatca tgaactcctt catcaacgac 180
attttcgaga agctcgccgg cgagtcggcc aagcttgcga ggtacaacaa gaagcccacc 240
atcaegtecc gggagatcca gacctcgtc cgcctcgtec tccccggcga gctcgccaag 300
catgcegtct ccgagggcac caaggctgtc accaggttca cctcctctta ggctgttctg 360
cttcctgtgt ctcgtagtta gctgttcggg tgtgtttgtg gccgtgttat cctgtaagaa 420
tcgcaccgag atgttt 436

<210> 4433
<211> 287
<212> DNA
<213> Triticum aestivum
<223> Clone ID: LIB103-058-Q1-E1-C4
<400> 4433

tactccgaag ggtatctggc gttacatcct gacacacctg accccattgc ggccgatctg 60

gacaaatggg tgggtgttggg catggggcca aaggaccacg gtcgggagge ggttctcgat 120
acggtgatca ctccgtcaat cccttaaaca cagctccttc ggatcaaccc gaccctaatac 180
cagcccacta tcacgcgcac aagcattgca ccgtcactgt ccccttttga ttaccaccaa 240
cctgtaccta tttccctttt gagctccaat gtcccttta gtttccg 287

<210> 4434
<211> 242
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB103-058-Q1-E1-C6

<400> 4434

ggtcgacgcg ccggaagac agcgacgagc ctgaggagga gcggctgcta cggaggctgc 60
tagcgctcta ccgtgcccgc caagcaaagc tggagtcctg ggaagcgctc gtcgcgaagg 120
cgagcgtgga catagagaat tgcgcggagg agcttcgggg tcttcgccag gaaactcttc 180
gggccttggc agacgagcgg gagcagcttg cggaggagcg gaaaggcttc ctcccttgaga 240
aa 242

<210> 4435
<211> 431
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB103-058-Q1-E1-C9

<400> 4435

gggtcgaggc caagctgcag tcccagtgt aacggttgaa cttgcggatg ggcggtgagg 60
cccgtaggga gttgctgtat aacatcgaat acagtgccga gtactgaagc agtgagtact 120
gggcaacctt ccctgatttc aacatctacc tgttatcagt acctcagccg cagtcatttt 180
tactgattat gccttgtttg ctgattttgt ttcttccagt ttgattttga tgatgccggt 240
gttctttcaa tcaagtaggc acgtgtagtg tttgccgga ctcgaagagc acagaggctg 300
tagtctgtaa attatacttt gtaacagttt tccaatcat tcttcagtat cccaggcttc 360
cttttttcgc tggagagaca ggatgagatt ttatttgta ggatttcaga ataaggctct 420
aatacatttg t 431

<210> 4436
 <211> 89
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB103-058-Q1-E1-D1

<400> 4436

tgccatccag ttgctggaca cgatccagct cgctgaggcg gacgagttcg aggtctatat 60
 gaaggacctg gaggccctgt gtaacccca 89

<210> 4437
 <211> 344
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB103-058-Q1-E1-D10

<400> 4437

gagtcggaca agatcgcccc ctacaacaag aagcccacca tcacctccag ggagatccag 60
 acctccgtcc gctcgtcct ccccgaggag ctgcgcaagc acgccgtctc cgagggcacc 120
 aaggccgtca ccaagttcac atcctcctag actgacggcg tgcagttggt ttctgcatct 180
 gcatctgtac tcttgactct gcttatctat ctatctgcaa gtagtggtgg tggtagtagt 240
 acctgtgctg ggtgattgcc aacgctttgt tggcccgttg gttgtaagag ctgaagttgc 300
 tgctttggca aactgaaatc tatctagaac tgaagttgtg gtgc 344

<210> 4438
 <211> 382
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB103-058-Q1-E1-D11

<400> 4438

gcaaacgaag gaattgttcc ctgggggctt gccaaaaaaa cccaaaaggc aaaccaattg 60
 gaaaggccgg tatggaaggt tggccgggaa gggcaacttc ccaacatccg ttacaattcc 120
 ccacccaatg ggcaaggctg gaatgtgctt ccaccctgat caggacagga tcatcactgt 180
 tcgtgaatgc gcccgatccc agggcttccc tgatggatac catttcgctg gcaacatcca 240

gagcaagcac aggcagatcg ggaacgctgt gccgcctccc ctctcctatg cgctagggag 300
gaagctcaag caagccatcg acgccaagcc tcgactggct taagttcact gcactgcatg 360
atacaagtcc cgtcattttt tg 382

<210> 4439
<211> 420
<212> DNA
<213> Triticum aestivum
<223> Clone ID: LIB103-058-Q1-E1-D3
<400> 4439

gggtccacgc gacaggacta atgagtgaag tgcggtaaag atgggcagtt gctgaaatgt 60
tccagctgct tcttagccgc ccatgctacc tgttttggtt catcggtgac attcgatgac 120
tctggccact ttgattgccc tgtttgctat tgccgtaaag ccgctaaagc attggaaaag 180
gctaagaaaa cataactctga agctagaaaa aaattatctg ttttctgcag cggctggaag 240
caattttcta aggaacacag tgagctgatg aatggctttc acacagctaa aaagcaaggt 300
aaccatcagt ctgaagcagc tgagctatgt cgcaaggatg gagagcctag tcatctgaaa 360
gaaaatggta caagtgatgc ttgtcctgag aatgcagtca ccacaaagac aaccattttt 420

<210> 4440
<211> 374
<212> DNA
<213> Triticum aestivum
<223> Clone ID: LIB103-058-Q1-E1-D4
<400> 4440

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ctgcccctca tccctctcgc cgctgcagct ccggagaagc acctcgtgac ccacctcccg 120
ggcttcggcg gcgcccctcc atccaaacac tacgccgggt acataaccgt ggacgagagc 180
aatggcagga gtctgttcta ctacctggtg ctgtcggagc gtgaccggc catcgacccc 240
gtcgtgctct ggctcaacgg cggccccggc tgctccagct tcgacggatt cgtctacgag 300
aacggctctgg attgatccta atcttaacct ccttcgggac cggcagttcc ctttgttgtc 360
ctcctgtgaa ttg 374

<210> 4441
 <211> 421
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB103-058-Q1-E1-D5

<400> 4441

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 gcttgacgtc catcatctac ccggtgaaga cggatctgcg agtaacccaa catccatcag 120
 cgcttcattg gagaagcagc aagcaaactg aagctgtagc tagctctgga ggccatgcat 180
 gcatcaatgt gcatttcatt ttactgcctg ctgcttggtta cccttttttg ttgttattat 240
 tattatttcg gtgtagtaaa aggggaatttt tgctcctgct ttagctcttg ggtctgggtcg 300
 tcggcggggtg gttccattgc atcgcatgta gatgtcgtag tagtggtggt caaagtaact 360
 cctctctcta gtccctagtc tagctgtagt ggctctgaaa gtattgtatc cgatgaaggg 420
 g 421

<210> 4442
 <211> 440
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB103-058-Q1-E1-D9

<400> 4442

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 cagatgattc agatggtatg gacgacgatg ctatgttccg tattgaccc tttattgoga 120
 ggattttcaa ggagcgcaac aaccttcctg gtagtgaaac tcagcaatct caacttatgc 180
 gatttaagct tcgtgtgctt actttactgg agttatatct tcagaggaat ccaggaaaaa 240
 aactggtgct ggaggtatat gctttcttaa tgcaagcttt tgtgaaatca catagcgccg 300
 atggcaatga gcagttcagg caacgtattg gtggtatatt gcagaaaagg atattcaaag 360
 caaaagaatg tccaaaaggc tttgatgttg aactcagtag acttgaaagt ttgctgcaga 420
 aggctctgca tctggcatca 440

<210> 4443

<211> 381
 <212> DNA
 <213> Triticum aestivum

 <223> unsure at all n locations
 <223> Clone ID: LIB103-058-Q1-E1-E1

 <400> 4443

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 tccgccgccc tcatcaacca gaaatgccac gtcaagaaca aggatatcag gaagttcttg 120
 gacggtatct acgtcagcga caagggcgcc atcaaggagg agtagagtgc gaaaaaccgt 180
 cccaccagaa gccgtgtttc tgcctgccgt gtttcacgtg ctttgtgtcg tcgttgctcg 240
 gattttgaac tttctctagg ctgaattttg tagtgggggt aattattang gatgtgccat 300
 ggaacatgtt atctttatta tctgtattg tcgccgcgag aatgggtccg acgcttatct 360
 acccctataa aggctgaaga c 381

<210> 4444
 <211> 369
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: LIB103-058-Q1-E1-E10

 <400> 4444

gacgcgtacg gctactccag ttattcactt ctgctcatta ggttgagttg aagatgaacc 60
 tctatctcaa agacgccagt agtagctact aggtcggcgc tattgcatat tctgcaaaaa 120
 tgtatctcgg ctaccaattt gttggcacga ctcatcttagc tattttcgac aaatgaattg 180
 gataaaatac tgagcatctc agcccgggtgc caatcaacat cctctgtcca tcatgggaca 240
 gatatctaac agtttggttag ccagagttag caggcacttg atttttggtt tgacgtcgat 300
 gatcgtgtcc gcttcttgcc tgtttgccct catgtccgcc agtacgtggt gtatattccg 360
 cctagctga 369

<210> 4445
 <211> 306
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: LIB103-058-Q1-E1-E11

<400> 4445
 cagccgaatc gacgatgtcg ccggcaggat caccacacag ctggctacca tggggatgtc 60
 caacatgaag tacgtcccag agccgaatgt gagtcctaata gccaggctaa ctttgttttt 120
 cgaggggtgtt ctagggggccc ctggcgggga tccgatccaa caggggtggc tctctggccc 180
 aagaggtccg gccgcattgc cggcgtgtga agaccatggc cctcatggaa ctggtgttcc 240
 ccagatttta cgtcttggtc acatcttagt tggatggtgg agggtagggg gtaacccccg 300
 tggcgc 306

<210> 4446
 <211> 462
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB103-058-Q1-E1-E12

<400> 4446
 cgggtccagaa taacgggccc acgggcaggc taacccaaac gaataggcga cagacggata 60
 cttggaggac gataactata tgcctacctc cgaagatgag gcgagcctcg gtgatgacaa 120
 attcggcgta ccagaggatc ccatagagca ggatcgcttt aagcgcaggc ttatagccac 180
 tacaagaagc ctgaaaaaga agcagcagca gctccaagcg gaccaagatc tgcttgacga 240
 cagatggacc gaagtccttg cggccgaaga atatggactc gaagcccaa gcaggggata 300
 cccaaagcat aaaccgctag aagaagaggc cgaagagctt gaacttccag cacaagatga 360
 ggctgaccga ccaccacgtg gccgggatga aacggcatgt caggccggac accagccccg 420
 acccccacgc cggttcacca tggcctgcgg caatacgcaa ga 462

<210> 4447
 <211> 419
 <212> DNA
 <213> Triticum aestivum
 <223> unsure at all n locations
 <223> Clone ID: LIB103-058-Q1-E1-E2

<400> 4447
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tactattaac tatgctctta gggcatcttc aatggctata agatagttgt tgggccacat 120
 aggatthttga tgatgtgtca taaaataaat gaggaagag agtaagattg tatgtacatg 180
 aaccaacacc ctgtgcacaa gcttcaatgt agaataagag agcaccttat ttattatttc 240
 acatcttatt ggacacacta gatacaatct attggagtag ttttatgtta aggcgttggt 300
 tgatgacatg ccatatttta cgaacaagct aacaaacaaa ctgttgagaga tgctcttaag 360
 cagtttcatg tactcgggac tagcanacat gctgatgtgg cagacaaaaa gaagagaga 419

<210> 4448
 <211> 387
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB103-058-Q1-E1-E3

<400> 4448

gggtccagtc tccggacgca gaagacttag cagctttcag gcataacgtc cgagacgaat 60
 ggctcgccag acacctcggc caagaaaagc caagaacaat ggccgcacta acaagcctca 120
 tgaccgcgtt ttatgcaggg gaagacagtt ggttggaaca gtgcagcccc agcgacccaa 180
 gtacatccga aactaaggat ggaaacggaa aaccgcgacg caacaaggac catcgctgga 240
 ctaaggacaa aagtccgaag agcacggcag tcaatgccgg attcaaaggc tcacgacaaa 300
 atcaagaaaa attgccgccc aggataacag ggacgatcca tccaacctaa ataaaatcct 360
 ggacaagata tgtcagatac acagtac 387

<210> 4449
 <211> 261
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB103-058-Q1-E1-E5

<400> 4449

gacgggggga atcaaagcga gggcttcgct ctacaccgtg agctcccgtg ggcgcgccaa 60
 acacctcgag cttaacatgg cgtgaacaat tgtctcgata gatttgctcg tcaactcgctt 120
 ttatgcacgg gaggtcagtt ggttcgcagg gtgcagcccc agcgacccaa ctgtattcgg 180
 aaactacgga tggaaccgtg aagccgcgac tccactagga gcatcgctgg actaaggcct 240

agattccgat cagctatggg a

261

<210> 4450

<211> 316

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB103-058-Q1-E1-E6

<400> 4450

gacacgtggc acgacccaac agaggcccat tcctgtgaaa aggccggcct gtttgacttg 60

gtcaaaaggt ggcggggccg cccatggaaa gcctgttaac gacctgttcg tatatagccc 120

atttacagcc cgctaacca agggccgtta caccctatcc gaattaggcc cagtagcgtc 180

atctggggcca tccaatatga ttccagccta atttcacttc cgccccatt tagggccaag 240

aagttcttcc ggccaatata agggccaagg tactccttgg ccaataaccg gcccttgta 300

aacctggccg gtatta 316

<210> 4451

<211> 185

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB103-058-Q1-E1-E7

<400> 4451

gacgggtgga gcgaaccagc agaggctcat tcctgtgata aggccggcct gtttgacttg 60

gtcccacggt ggcggggccg cccatggaat gcctgtgatc gacctgttcg tatctcgcc 120

atttgcagcc cgcgaccct cggtctgtta gaccctctcc gagttaggcc ctgtatcgtc 180

ctcta 185

<210> 4452

<211> 418

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB103-058-Q1-E1-E9

<400> 4452

gggtcgaggc gccgaacac gctgaacaac aggtgatcgc gcgagaagct cttcctccgt 60

aattaagtag cggccaagcg aagaccgggg cagagctgca aatgcaagaa gcaaggagga 120
gcagagcaga cactccggcg ccggtggtga gctgctgctg aaccggagcg ccagtcagaa 180
tttcccgctc ccgagctggt ccttctgccc ggtgcccac cagcatcctct gtccatcatg 240
ggacagatat ctatcagttt gttagccata gttagcaagc acttgatttt tggtttgatg 300
tcgatgatct tgtccgcttc ctgcctgttt gcgctcttgt ccgcgagtac ttggtgtata 360
ttccgcctag ctgatgtect tttgttctac catcagaaac aagaattggt ctcttgct 418

<210> 4453
<211> 378
<212> DNA
<213> Triticum aestivum
<223> Clone ID: LIB103-058-Q1-E1-F10

<400> 4453
ataagtattg tatgtgaaac caaaattgag gatctcttga aaggtggctc gtgacatgat 60
acgaagccag gcgtgaggaa taacctcaga aacagggggg aaaggagagt caggtttcga 120
tctcgtggaa ctgtgggtta tgggcccacc atgtgggtta aaagtaggaa ggggtgctggc 180
atcttgcacg gttatgatag caaggtatgt tagaggatag tatgtcagtt atgtcggcaa 240
caacgttggg accaagggcg agggatgaag agaaccattt tctgctcgt tgaacgaggc 300
tgaccaatag gcacagttct catccatcgg tggtaccgg aatgtcaaca ccaatagtag 360
caggggtcttt actgacag 378

<210> 4454
<211> 402
<212> DNA
<213> Triticum aestivum
<223> Clone ID: LIB103-058-Q1-E1-F12

<400> 4454
gggtcgaggg cgagtcataa ttataggtga caccgggtca tgattgttgc aaacactggg 60
tcaatctgac ctgctcaaaa ctgagaattt gaagatTTTT tccctttata tgtatatcac 120
ctgtagcccc caagtgtcgg gttgtcatgc tagcagcaac ctgggatttg taattgcctt 180
atgtcataa aacttcaacc agtgtagccc ccaagggccg gtttagtaag atattactga 240

gctgggactt tgtatataat tcattgataa taatatcata tgatgtaata tccaccatgg 300
 ggcttgaacc cacgtccaaa aggttaagag ctttgtgctt taaaaactga gcaatgggtc 360
 cttcaatata atggattaag acttgtgtac cttgaactgt tg 402

<210> 4455
 <211> 434
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB103-058-Q1-E1-F2
 <400> 4455

gggtccacgg gggcggagaa cagagcgcgt aattaaactc gaataccttt ccgcggcggc 60
 ggtagagcac tgctattaag cgattttgga gaagacagat gaattcgagt tcctttcaga 120
 tctagtccat agatttgcac cgctgacttt gagtgtgggg gacgaacttc ttgacaagga 180
 ggcttccggg ggatctgtcg gattaagccg gtgggtgcac cgatgacagg gatgtgagcg 240
 ccgcggtagc cgtgaggcct atggacctga acgacaatgg tacttgogag actgcctttg 300
 cggcggactc gggtcagttg gtgctgagag atgatccaca aacgcctggc tggacaaaag 360
 acgttcaacg atttagctgc tactcagtcg tctaattatt gtgtgttgge cttttagtcg 420
 tgtggcaagt ctgt 434

<210> 4456
 <211> 424
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB103-058-Q1-E1-F3
 <400> 4456

gggtccacgc gtctgtcaca ttcagagtcg tatgtatttt tgcaaattatt ctatgtcttc 60
 aatgctctgc atggagctac tctagctaatt ttctcccact ttcagtatgt atccagattg 120
 agacttagag tcactctggat cagtgtaaaa gtttgcaccg atgtaacttt tacaacgaaa 180
 tcttttatca cctccataat cgagaaacat ctcccttagtc ctactaagg atattcttga 240
 ctgctgtcca gtgatctact attagattaa aattgtattc ctttgccaaa ctgagaggaa 300
 ggtataaaat atgtctggtt cacagcatag catactttat agaacctatg actgaggcat 360

aggggaatgac ttttcattct ctttctatct tctgccatgg tcgggtcttg agtcttactc 420
aact 424

<210> 4457
<211> 358
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB103-058-Q1-E1-F7

<400> 4457

ttcgacgggt cggaccagat caggaaggag ctgcgggca aaggcatcgc cctgatggac 60
gagcctaccg ggacgggtgtg gagaccatgc gaacgggagt agtcgggtgat taatatgtgc 120
ctggtttaac agatgacagt gtacaacgga cggatcttat tgcgctggtg cagattttac 180
tcatgcaata tcgccagttt tggacgtggt gtttctgtag gggttccaag ttgactcaag 240
agacgaggcc cgtgttgtgt cggttgttgc gtaggaggac aaattgaagg gtcctccgta 300
tattggtata cttcactaaa aaaaaaaaaa aaaaaaaaaa aaaaaaagcg gccgctct 358

<210> 4458
<211> 442
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB103-058-Q1-E1-F9

<400> 4458

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caccgccaca tcggcatctc ctcaaaggcc atgtccatca tgaactcctt catcaacgac 120
atcttcgaga agctcgccgg ggaggccgcc aagctcgccc gctacaacaa gaagcccacg 180
atcacctccc gcgagatcca gacctccgtc cgcctcgtec tccccggaga gctcgccaag 240
cacgccgtct ctgagggcac caaggccgtc accaagttca cctcctctta gattcagttc 300
ctggcagctg tagttgggtg ctgtttgccc agaattagtg ttgctcagtg gaaatcggtg 360
gaatatcggt tagtttgtag ttgggttggg gatgttaccg tgcctatgga ctgatcgatc 420
tgaaatagca atggtctggt gc 442

<210> 4459

<211> 399
 <212> DNA
 <213> *Triticum aestivum*
 <223> Clone ID: LIB103-058-Q1-E1-G1
 <400> 4459
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 actttgetag cctctattct gccgcacaac tttcgccggt ttcatgcacc cattacttac 120
 cttcctcaaa acagccacca tacctaccta ttatggcatt tccatagcca tcccgacata 180
 tattgccatg caactttcca ttgttccggt attatgacac gctccattat tgtcatattg 240
 ctctttgcat gatcatgtag ttgacattgt atttgtggca aggccaccct cataattttc 300
 ataaatgtca ctcttgagtc attgcatatc ccggtacacc gccggaggga ttcatataga 360
 gtcatatattt gttccaagtg ttgagttgta attcctgag 399

<210> 4460
 <211> 376
 <212> DNA
 <213> *Triticum aestivum*
 <223> Clone ID: LIB103-058-Q1-E1-G12
 <400> 4460
 gcgtctagct ccaggactcc agcatctggt tgcgagaacc aggtagaaag gaaaggggaa 60
 aagagggaga gaagcaaccg tgagtactaa tcaaaagtac tcgcaagcaa agagctacac 120
 tacatatgca tgggtgtatg tgtaaagggc catatcagtg gactgaactg cagaatgcc 180
 gaataagagg gggatagcta gtcttgctga agactacgct tctggccatc tccatcttgc 240
 agcatgtaga agagagtaga ttgaagtcct ccaagtagca tcgcatagca taatcctacc 300
 cggcgatccc ctctctgctg ccctgttaga gagcgatcac cgggttatat ctggcacttg 360
 gaagggtgta ttttat 376

<210> 4461
 <211> 421
 <212> DNA
 <213> *Triticum aestivum*
 <223> Clone ID: LIB103-058-Q1-E1-G2

<400> 4461

gggtcgaggc gaggtgacaa tgaagactga tatggttacc ggcagataaa agggggctgg 60

aagggccgct ggcactgcac aactaacatt caggcgctcg cacaaggctg gagaggctct 120

atgcatcgct gctgctattc atgtcactgg aaagctgaaa actgccaaagt ttgattgttc 180

tcaccgtggg aaggctagca ggacaaatat attgcatcat gtgaagaagc aaacaaagca 240

gcaacaaggt tctacaagcc cgggtgtatag gcagatgatg gcgatggctg tgaagacgat 300

caggctcagc catccgccat gaacatatgc ccaagaacaa acaacaatt aatcaagtga 360

atgcatcaaa atgtgtagat acagggtgaca agtgcttgaa ctactagcta gcattgggct 420

g 421

<210> 4462

<211> 400

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB103-058-Q1-E1-G3

<400> 4462

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aggggctcgc tgggatccgg ctcgtacagc tccatgagcc tctggctccc attggctgat 120

ctgctgggac cggcttcatg gacgaggttg atggcgaggt ggacgaggtt gacggcgagg 180

tagatgaggt tgacgacgga caggggccagc tccggctcgc cgacatgggtg gaaggggtgcg 240

gccatagaag agcagatcga aaaaaaattg agccttctcc tcacccgagg aaacaatgcg 300

acaaaggagg gtgaatcaac gcggccgagg cgtggggcgg gggagctccg acgaagcccc 360

gggaagctgc acgagtgagt cgagcagggg agctccggcg 400

<210> 4463

<211> 386

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB103-058-Q1-E1-G4

<400> 4463

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tctcgacgag aagacccgga cgaacctcct cctctggccc gtggaggaga ttgagaccct 120
 ccgcctcaac gccaccgaac tcagcgacgt cacccttaac accggctccg tcatccatat 180
 cccgctccgc caaggcactc agctcgacat cgaggccact ttccaccttg atgcttctgc 240
 cgtcgctgcc ctcaatgagg ccgatgtggg ctacaactgc agcagcagcg gcggtgctgt 300
 taaccgcggc gcgctaggcc ccttcggcct cctcgtcctc gctgccggtg accgccgtgg 360
 cgagcaaacg gcggtgtact tctacg 386

<210> 4464
 <211> 426
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB103-058-Q1-E1-G9

<400> 4464

ctaaaaataa agttcttcga ctgaagactt tggatttctg aagactttct gaagactttg 60
 aaagtgaaga aattggtgtg accttgaaga cttggtattc attcgaggaa catgaagcgt 120
 gaagacttat gttttcgtag tttcattttc tctttcttga gtcataaggaa acaccgtact 180
 gttaaagggg gtcgaggaaa tactaaggaa aaatttccat gttatgctca actcaaaatc 240
 ctacacctac caatcccttc gagtgaagcc attggaaatc tcatacagtc cagtcatatt 300
 cttcagtgc agagacgaag ttcttctggt ctctgaggaa tttgttctga ctgaggagtt 360
 aggaattcgc cagtgtggat tgcctacaca gtgaaggaca tgatagccct gaggaatttg 420
 atactc 426

<210> 4465
 <211> 367
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB103-058-Q1-E1-H1

<400> 4465

agctgagagt cactgtcatg gcgcgtcacc tgggtggatcg atctgtcagg cgggcttctg 60
 gagtactcgc agctaaaaca tcttcaagaa gctatgctaa acttgaagtt ttctcttgta 120
 aaatggaagt cactgtcgct tgatctcatc tcccgtactg gctacattac cgtgacatgc 180

cgtgtcctag catatgaatg tggctttggt ttggctctag gtgccggaag tagttatatt 240
 atctatgcat gtatgtacgg ttcgtaccat gtgttatctg gtggtactgt agattaaact 300
 ggggtgggtgg taataggaca tatcattcga cttgtcataa ctactaagtt agacatatac 360
 ttcaaaa 367

<210> 4466
 <211> 433
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB103-058-Q1-E1-H10
 <400> 4466

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 aatgatatgc agagactgat ggccgatgag caagaagagc gcatacgaaa gaagggtggag 120
 aaggcaatgg ccactttgca agtctccatg aacagtatatt atgacatcaa tgtaccatcg 180
 aagatatccc tggacgatcc agatgatgaa acaacattgg agcttgatcc tgagttcctt 240
 cctccaacgg cgtacttaag ctcaagacta ggtgagcatg atggcaacta tctcctttct 300
 gatttggaat ttgagcatga ccctttttct ggttgcaatt ttgacctgaa gctcaaggat 360
 gactactgaa atgatagttt gtctagatca acagtattac tctgttgagg tttcatcggt 420
 cagtgactca gtg 433

<210> 4467
 <211> 414
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB103-058-Q1-E1-H11
 <400> 4467

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 agtacctaag tgggtggtttt attttcttat actaacggag cttacgagtt ttctgttgag 120
 ttttgtgttg tgaagttttc aagttttggg taaagattcg atggactatg gaataaggag 180
 tggcaagagc ctaagcttgg ggatgaccaa ggcaccccaa ggtaatatta aaggacaacc 240
 aagagcctaa gcttggggat agccccgaa ggcacccctt gtttcgtctt cattcatcgg 300

taactttact tggagctata tttttattca ccacgtgata tgtgttttgc ttggagcatc 360
 attttatttt cttttgtttt gcttgctgtt tgaataaaat accaagatct gaaa 414

<210> 4468
 <211> 256
 <212> DNA
 <213> Triticum aestivum

<223> unsure at all n locations
 <223> Clone ID: LIB103-058-Q1-E1-H12

<400> 4468

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 tggggccatgc anaattcaca cgatatggga taccatacca acacacagcc ttagaggatg 120
 ttggatactt cggcaggtgg ccaagacggc gaggatctcc tcattaacaa taccgaggag 180
 catcatcccg cagaaacgac aatacagtgt tgacagtctt cgagactttc acctcaaata 240
 acaggcgcaa gagagc 256

<210> 4469
 <211> 396
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB103-058-Q1-E1-H2

<400> 4469

aagaagggca gcaaggccaa gaagggcgtg gagacgtaca agatctacat cttcaagggtg 60
 ctgaagcagg tgcacccgga cgtcggcatc tctccaagg ccatgtccat catgaactcc 120
 ttcataacg acatcttcga gaagctcgtc ggcgagtccg ccaagctggc ccgctacaac 180
 aagaagccca ccatcacgtc ccgggagatc cagacctccg tccgcctcgt cctccccggg 240
 gagctcgcca agcacgcogt ctccgagggc accaaggccg tcaccaagtt cacctcatcc 300
 tagacagctt aggcttgatc ctcgctcgtc catgccttct gtgtgtacct agtcggcagt 360
 atgatgttac aatctttgta aggattctgc tgcttg 396

<210> 4470
 <211> 284
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB103-058-Q1-E1-H3

<400> 4470

ggtggcgtgg aggtttttctc ggtgtgggtc ttcgctgggc cggggcaggt gcacccgcgt 60
ggtccggatc ttctcaaccg agctgtatgt cttcggctcc ttcaatgtgg aggtcatcgt 120
gaatgtcgtc gggaatctta tcgtgctagg tgtcatggct tgggcggcca acatcgagtc 180
ttgggagatt cagatcttcg tgtttcgctt gctctttcgt gagctggcca ggccaccttt 240
ctgcttttgg accactgtcg tctccaactt caatgcagcc ttg 284

<210> 4471

<211> 389

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB103-058-Q1-E1-H4

<400> 4471

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gtgcttcatt taaacctttg gaccttgaaa gttttggccc aatggcttca cttaaacctt 120
taaaaccacg gcggtggctt aatttggtaa aaattgcaag ccccccaggc ttcacttaaa 180
taattttgaa agcctttttg aacagcatgg tatttgcaat ggtataaaa gtgggtccaag 240
aatggtaggc atccaagttg ggtataataa aaactatcgt aggaagtga tgggatgcta 300
tgatcaattt gatacttgat aattgttttg agatatggag gtagtgatat taaagtcatg 360
ctagttgggt gattatgaat ttaaagaat 389

<210> 4472

<211> 414

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB103-058-Q1-E1-H6

<400> 4472

gtaaaaacaa ttgtcagcat acttaaccag agcttccatc ggctccccca tgtcactgaa 60
gtggcggttg agccgccta gcttctgctt aaggggcaaa aaatgacaat tcttctctaa 120
catcaagact actgagccga cattgatacg atccggtgag tgcaggatag ttgagacgcg 180

gcgacaccaa tgggttggtg actcgccctc ttcttgga caagagtcca aatccacaat 240
cgacatagga tgtttgcatg tatctttaa ttctggataa accgggcttt taacttggcc 300
catgatccaa tggagttggc aggcagccct tttaaccaag tacgggtcgt cccatccagc 360
atcatggtga aatatttggc acacgcagca ttgctaacat ccaacagctc catg 414

<210> 4473
<211> 350
<212> DNA
<213> Triticum aestivum
<223> Clone ID: LIB103-058-Q1-E1-H9
<400> 4473

acattcacca tgaatcatca tcgccccat gcgtcggtga cttatggcca tgagaagaag 60
ggaatgctgt gtgggtagta gggagtatgt tgggtatttg tttgtttact gtaaagagga 120
acacttcctt taatagccat tgttatgtgg taggtgggtt agtggtgcaa ccagaggatg 180
catgtgttct catgtggaag ggacagtgat aatggaaatg agctgggtgt tagttaataa 240
tcagttagta aaaaaaaaca taaaataaaa aaataaagt caaagtctag ctaaagatca 300
tggacattat ggaaaatctt aaagacaaag ggaaaaaaa gtgcccagag 350

<210> 4474
<211> 77
<212> DNA
<213> Triticum aestivum
<223> Clone ID: LIB103-059-Q1-E1-A1
<400> 4474

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cagacggcct ctctgat 77

<210> 4475
<211> 402
<212> DNA
<213> Triticum aestivum
<223> unsure at all n locations
<223> Clone ID: LIB103-059-Q1-E1-A11

<400> 4475

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tacctgatac caatgtgcag gagataaaga ttagtccagg aattatgctc ttaatatatg 120
atcgaacgcc aagttatgtt cctttgagga tattatctat tgaagatgga aagccactca 180
aattattcaa gcacttggtg caccgcggca agaaaattga ttttatcgag caattcaatg 240
agaagctcct tgtgaagcaa gaagacgaga accttcagat acttgatgta cgaagtctcg 300
agctaattga catcagtatt gagaagtttt atgacccgtc agcattaatt tttctgtatg 360
agaacaatct cttcttgaca ttccganaca gaacagttgc tg 402

<210> 4476

<211> 376

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB103-059-Q1-E1-A2

<400> 4476

ccggtcaaga atatccgggt cgactggatg ctataatgaa gccgtttatg ctccgccgtg 60
ttaagattga tgtcatagca gaaatgacgg aaaagaaaga agaaattgtg ccctgcagat 120
tgagttctcg ccagcaaato ttctatcaag ccataaagaa taagatctct cttaatgagt 180
tgcttgatgg aagtcgtggc aatctaaatg ataagaagct gcttagcctg atgaatattg 240
tcatgcagct acgtaaggtc tgcaatcatc cagagctgtt cgagcgcaat gacggaagct 300
attactttta ttttgaggaa atcccaaatt ctcttcatcc tccccattt ggggagttgc 360
aagataaaca ttatgc 376

<210> 4477

<211> 332

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB103-059-Q1-E1-A3

<400> 4477

acgggatagg ggaggggggt ggagacggga atgctagggg gtgtggtctt ggcaggctgt 60
gagggatcaa gagacgcaat tgtggcctgc agattgagtt ctgccagga attcgtctag 120

cccatcgccc atccttttga taagaccaat tt

392

<210> 4480
<211> 433
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB103-059-Q1-E1-A9

<400> 4480

tctggcaacg gtagaggcgc cgacatcaac ctcaaggtca aggggcagga tggcaatgag 60
gttttcttcc gcatcaagag atccacacag ctgaagaagc tgatgaacgc ttactgcgac 120
cgtcagtctg tggatctcaa ctccattgct ttcctttttg atgggtcgtag gctccgtggg 180
gggcagaccc ctgatgagct tgagatggag gaaggcgacg agatcgacgc catgcttcac 240
cagaccggag ggtgctttcc tggcccttag aacgagcttg ctgcagcctg gctgttctat 300
gtcgtatgct accttttagaa ctagagtaaa atgtaagaag tgaaagaact tgtgaggcta 360
tggttctgtg ccatagcctg aaggggggtc tggaggtgaa acaacatcgg agtactgttg 420
atgtcgtgac tga 433

<210> 4481
<211> 424
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB103-059-Q1-E1-B11

<400> 4481

ccgggcccgc ggggacacca acttgccgtc cgagaaggctc aaggatgaga tcgtcctcga 60
cggcaacgac atcgagctcg tctcccgtc cgccgcctc atcaaccaga aatgccacgt 120
caagaacaag gatatcagga agttcttggc cggatatctac gtcagcgaca agggcgccat 180
caaggaggag tagagtgcga aaaccgtccc agaagccgtg tttctgcctg ccgtgtttca 240
tcgtctttgt gtcgtggttg tgattttgaa ctttctctag actgaatttt gtagtggagt 300
taattaggga tgcgctatgc aacatgttat ctttattatc ctacatattg tcaccgtgaa 360
aaaaaaacaa aaaacagaaa aacaaaaata ggctacaaaa aaataaaaaa aaagcggccg 420
ctct 424

<210> 4482
 <211> 439
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: LIB103-059-Q1-E1-B2

 <400> 4482

cgggtcaagaa tatccggggtc gacgggggatc ttgaaataca gtaggttttaa caccaatata 60
 aataaagaat gagttcatta cagtacctta tgtgggtggtt ttgctttctt tcactaacgg 120
 agcttatgag atttcttggtt gagttttgtg ttgtgaagtt ttcaagtttg gggtaaagat 180
 ttgatggact atggaataag gagtgacaag agcctaagct tggggatgcc catggcaccc 240
 caagatattc aagaatagcc aaaagcctaa gcttggggat tgccccggaa ggcattcccct 300
 cttttgtctt tgttcattgg taactttatt tggagctata tttttatttg ccacatgata 360
 tgtgttttgc ttgtagcatc ttgtatgaca ttagtatttg ctttttagtt taccacaatc 420
 atgcttgctg tacacaaca 439

<210> 4483
 <211> 201
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: LIB103-059-Q1-E1-B3

 <400> 4483

cctgagaacg gaagggggcg tgtcgattgc gtctctcac gggatgaacc taaacacgaa 60
 agcaggggtc tggaagtcaa cgaacttgta agatccttcg agtgagttca gatagattgc 120
 ttcgcggggc tcttcgctca cgccgctctg catggcatac tccagtgcc tttcatagtc 180
 aacctgttca acatgctgcg t 201

<210> 4484
 <211> 422
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: LIB103-059-Q1-E1-B4

 <400> 4484

cggctctagat atccccgggtc gaccgggaga atgagaagag acctagtcgg gtctatttat 60
 aaggaaaaga ctgttaagtg ggcgcacaaa atgaggagcc caaaaaacat agttatccaa 120
 ctataaggac gcctcgattt tcggacggtc actaagacaa agatccgttg agatacattg 180
 gaagaaccgc gtatttatag caggtgacat catggcgggt tagcacaaat tcaagggatg 240
 atgtcatggc aggttacaaa aagcttcata agcaaggagc agaagatttt tcttaaagta 300
 tcgaagattg acatgaacca gttcaaata atctggggcc taatgttggg gatataacta 360
 taaggatatga cctccctgg aggggccggg ttatatctat gagtattctg aagcccaaga 420
 cc 422

<210> 4485
 <211> 374
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB103-059-Q1-E1-B7
 <400> 4485

cgggccgacg gggaatgaac ggtgagcagg tgagctctgc tctgcctctg cccagctcct 60
 ctgcatcagc tgtaacgtta ttctgcttgc gaattttctt agatcatcaa tcaggagacc 120
 ggagcttgaa tgaaacctga gtaggcttgc gaattttgta tgcttgcaac atcatttggt 180
 catgaattat atccctggtg tagaagttaa gttgctgcaa tggttgacat tcgattaaaa 240
 aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 300
 aaaaaaaaaa aaaaaaaaaa tgaaaaaaaa aaaaaaaaaa aaaaaaaaaa aacgggcccc 360
 ccaaagggtt caag 374

<210> 4486
 <211> 361
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB103-059-Q1-E1-B9
 <400> 4486

tgacggggcg tgcttttaggc ccttctggcc agcggagtga acatcccatg cgaatcagcg 60
 tacttgaaca tatggtgcag gccctccata accaatataa acatcaatat aaacatcagc 120

cccccttaggc tcatcaatca gcagttttgt acttatagca tactaaataa aatgctcttg 180
tatacaattc tgatctatcc gtaaaaatgc tgacatgtca aatatgtttg ttacttttgc 240
agtttgtag agaagcaatt tcttcgatga tgctggagac tcggctaattg cagttttgtg 300
ctggttgcat gaatgtacag tcgtcgcgct ctcagtctcg gtgtatcggg atttttaacc 360
t 361

<210> 4487
<211> 418
<212> DNA
<213> Triticum aestivum
<223> unsure at all n locations
<223> Clone ID: LIB103-059-Q1-E1-C3

<400> 4487
gatccttgaa ctaagagccc tagtgcgctc acatctcgta tgctctgcta ctgttgctta 60
atgtaaggca gctagcacac caatatttct gtatcttcac aacgcttaat ttttcttcac 120
ttgtcctggc tggaagtatg taccaagtat agctatcgaa ggccattcta ttttgctttg 180
taaccgggtc aatcgtttat atacatatat atactactca aaaataattg cataacgatg 240
gttggttcgtt tggtattatt ccataatata caggccgaat catggctgac acggacagca 300
agaagatcga tctaccatac tatgcgttga aatatctcct gacgattgta tgtatcgcgc 360
tgggttgcttc cattgtttgg taactgacgt ctactanccc actatggatg actgcaag 418

<210> 4488
<211> 236
<212> DNA
<213> Triticum aestivum
<223> Clone ID: LIB103-059-Q1-E1-C4

<400> 4488
tctcacctcc atggcctcca ctttcgacgg tcgtacgctc agtggtgagc agaccctga 60
tcagcctgag atgtatgaac gcgaccacat tggcaccatg cttcaacaca ccggagaggg 120
gcgtaccact cgcttacgaa gggtcatgct gcacctcgac tgtcctaagt cctatgccac 180
ccttacacat acagtgccat atggcacgtg acagacccta cgacgctcac actctg 236

<210> 4489
 <211> 387
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB103-059-Q1-E1-C5

<400> 4489

acggggttatc tcaactgtgtt caccttgtct catgggagaa ggagaatgtg tccagtgagg 60
 ctcttgaggc tgcccgattt gcttgcaata agtacatgac caagcatgca ggaaaggatg 120
 ccttcacact cagggtcagg gttcaaccgt tccatgtgct ccgtatcaac aagatgcttt 180
 cgtgtgccgg ggctgatagg ctccagactg gtatgagggg tgcttttggg aagccgcagg 240
 gagtctgtgc ccgtgttgcc attgggcagg tctctctttc tgtgcggtgc aagcccaaca 300
 atgccatcca tgccactgag gcccttcgtc gtgccaagtt caagtccct ggccgcaaaa 360
 agatcattga gagcaggaag ttgggct 387

<210> 4490
 <211> 80
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB103-059-Q1-E1-C6

<400> 4490

gacgggttaa cgaagggtgtg tccagattgt ctcatgggac agggagaagg tgtcgagtca 60
 tgctcttgag gctgctcgta 80

<210> 4491
 <211> 225
 <212> DNA
 <213> Triticum aestivum

<223> unsure at all n locations
 <223> Clone ID: LIB103-059-Q1-E1-D1

<400> 4491

ccggtcgacc gggagaagta tgtcattgtt agagagcttt caagggcact tggttctaag 60
 acgcgtcctc cgaattgatc aatactactg gcgagtggct gttgtcgttg ttgttgtaac 120
 ctgtaagtcc accattatga agctttcgct tgttttacgt gtctgccttg tctatatgtg 180

taaggctaca angaacgaaa tcaatgtaca tatgttacct ctatg

225

<210> 4492
<211> 370
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB103-059-Q1-E1-D2

<400> 4492

ggatttggat ttatgcagta ctttgatccc aacgatgcgg cagacgcaaa atactacatg 60
gatggacagg tcattcttgg tagagaagtt gcagttgttt ttgcacagga gaacagacag 120
aagcctgctg agatgggaac tagagaaagt atcagaggtc ggtcttacga tcggcgggcac 180
tctccttccc caagggggcg gccatcttac cgcggccgaa gctactcagg gtctccatca 240
cctcgccccg caaggcggag gttcagagac gagtctccct cgcgctcccg ctcgcccagc 300
ggatcgagga gtgcgagtcc attggatggg aagtacggca ggtcctcacg aagagagagg 360
tcgatttcgg 370

<210> 4493
<211> 404
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB103-059-Q1-E1-D4

<400> 4493

gaccggatct catagccggc aaatctcttt acccgttccg tgatgcatca tcccgcaact 60
aactcattag tcacattgct tgcaaggctt atagtgatgt gcattaccga gagggcccag 120
agatacctcc ccgatagacg gagtgacaaa tcctaattctc gatctatgcc aactcaacaa 180
acaccattgg atacacctgt agagcatatt tataatcacc cagttatggt gtgacgtttg 240
atagcacaca aggtgttctt ccggtattcg ggagttgcat aatctcatag tcagaggaac 300
atgtataagt catgaagaaa gtagtagcaa taaaactgaa cgatcattat gctaagctaa 360
tggatgggtc ttgtccatca catcattatc taatgatgtg atcc 404

<210> 4494
<211> 383

<212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB103-059-Q1-E1-D5
 <400> 4494

gacgggatac agtaccggt gggacgtata cacaggcagc tcaagcagag ggtctcggct 60
 aatggccgtg tgggtgccac tgctgctgtg tactctgcag caatccttga gtaccttact 120
 gccgaggtcc ttgagctggc cggcaacgct agcaaggatc tcaaggtgaa gcgtatcacc 180
 cctcgccacc tgcagcttgc gatccgtgga gatgaggagc tggacaccct catcaagggc 240
 accatcgctg gtggtggtgt catccctcac atccacaagt cactcatcaa caagacctcc 300
 aaggagttaa tgatatgcaa taacgggtag ttgttggtgt ttgtatcccc gtgatccctt 360
 gttacgttgt gctacctgtt acg 383

<210> 4495
 <211> 407
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB103-059-Q1-E1-D7
 <400> 4495

gacggggtaa ggggtgcctt gggtaggcgg cacggcatgg gcatgtcacg ccgtccagcg 60
 gtcggcgcttg gtcgttgggt cgccgtacat ggatgcgaca aagtgggtggg atgcagacta 120
 gcggagaaaa gattccggcg caccctacc tgggtgcgcca aatgtcggat atcgggttcc 180
 tgcaaaacc ttaaggttca aactctgggg tgcgcgcgaa gatcttctcc ctactgatcc 240
 acgcccacaa cctcgccgcg attctaagct aacaagatga acaacacaag gaacacgaga 300
 ttatactgg tttaggccac cattgtggtg taatacccta ctccagtgtg tgggtgtgtg 360
 attaactctt gggctgatga ggaacagtac aagggaaga acagcct 407

<210> 4496
 <211> 221
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB103-059-Q1-E1-E1
 <400> 4496

cggtcagcat actcaaatta gttcctgtac caaaatatga acatacaaaa caattggata 60
 gtttgtatca agtttttgtg gcacttgcta ccttgatttc aatggagata acggtgtagc 120
 acaaattcaa agcatctgta tatgtatgct atgcattctt atgcccttca tgcgggatgg 180
 atatttttga aatcaacaaa agagacagat atattatgtg t 221

<210> 4497
 <211> 328
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB103-059-Q1-E1-E2
 <400> 4497

ccgggtcgac cggagcacia acaaaaccaa aaccaaggct taaccgcagt tccgcagttc 60
 gtgtgttgct tatattatat gttgctatta tattaccatt attaagtgag ggaggaattg 120
 attagtcca gtgtttgatt ttgttctgtt tgtcatggta cgaggaaaga tcaccaagta 180
 gataaggtct ctagtagcag ttggctgta cctaatacgt acccttattt cattccgact 240
 agtaagtaaa aacttgtttt tccctcaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 300
 aaaagaaaaa aaaagaaat tttattat 328

<210> 4498
 <211> 442
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB103-059-Q1-E1-F3
 <400> 4498

ggtcaagaaa tcccgggccg actatcacga tgaccggggt cttgtcgga atgatccgca 60
 tctccatact cagcgaaaat agccgaacga aggtgtagtg cagcggatga aggttaaaca 120
 tagcaaagat gtcacaaac cgcaggacga tcgtaccccc gatgtcgcca tccacaaagc 180
 ccttgtcttc tggcaccttg gccacgaaaa ccgggtatgc cacatccttc tctctgagac 240
 gccgcttctc caaagaaaga aactgtcgt gcagactccg catagcaccg gttgcagcat 300
 tgagcatatt tgggtgtagc atcgccctac ccgccacatg caccctcctc gagatatact 360
 gcgggtgaagg tgaccggtca tgagcacgga tcgtactcgg tgccggctgg ctcgcaacct 420

tcttagtctt toctttgcgt gt

442

<210> 4499

<211> 416

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB103-059-Q1-E1-F4

<400> 4499

gggtcgaccg gtaggcatac aaaaatagta aaaacttcca tatagagtat tgaataactaa 60

gagaagtttg atgcttgatg atttttttga ggtatggaga tggatgattt agagtcacgc 120

tagttgagta gttgtgaatt tgagaaatac ttgtgttgaa gtttgtgatt cccgtagcat 180

gcacgtatgg tgaaccgtta tgtgacgtag tcggagcatg atttatttat tgattgtcct 240

ccttatgagt ggcggtcggg gatgagcgat ggtcttttcc taccaatcta tccccctagg 300

agcatgcacg taatactttg ctttgataac ttgtagattt ttgcaataag tatatgagtt 360

ctttatgact aatgttaagt ccatggatta tacgcactct cacccttcca cctttg 416

<210> 4500

<211> 375

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB103-059-Q1-E1-G2

<400> 4500

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gcccacctgt tggtcgggca tgtcgtggag gacgaacatc gggagctcgt cggcctgaag 120

atagtccggc gccgccggga ttggcatgag tgtgagagat cggagggtgct caaagacctg 180

tcatacggga tcagttcgcc gcatcttgaa atagttttgg aatgactttt ggtaaaagtc 240

tgctgtgccg gtagaccttc cgttttagg gctttagct gtatgccagg gcctaagat 300

tatgttatgc tggctctaaa tatagaacaa catgtgtttg tacgtggtat cttgtacctt 360

acttttgctt gatta 375

<210> 4501

<211> 384

<212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB103-059-Q1-E1-G4
 <400> 4501
 gtctttgcat ttaggtttac cacaataatc ctgctgttaa acaccttttg gagagataca 60
 catgaatcgg aatttattac aatactctag gtgcttcact tatacctttt gagctagata 120
 gttttgccct agtgcttcac ttaaactctt ttagagcaca ttggtgggtt aattttataa 180
 aaaaatattg atccctcatg cttcacttat attattttga aagtctttta gaacatcagg 240
 gtaatttgct ttggttgtga aattagtctt aatatgatag gcatccagga tgggtataat 300
 aaaaactttc atatacgggtg cattgaatac tatgagaagt ttgattcctt atgattgttt 360
 tgagatacta atatgatgat atta 384

<210> 4502
 <211> 307
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB103-059-Q1-E1-G5
 <400> 4502
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 gcgcttcgcc taagcaccgc tacattatta tccaggatta ttctggaggg ggaaccgcac 120
 acggttcaga gaacattgat caattgttgc gtcactgggg tgccccctg cctcgtata 180
 taaatgacca tgggggacgc cgccggttca cgaggagggc gcgccacggg ggaactccta 240
 ctcatctgc gactaagaat cttccctccc ttgttggcgt atgagacacg gaacgatgcg 300
 gggaatt 307

<210> 4503
 <211> 404
 <212> DNA
 <213> Triticum aestivum
 <223> unsure at all n locations
 <223> Clone ID: LIB103-059-Q1-E1-G8
 <400> 4503

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 ggcgcaggga actcctcggg cgattcgccg ctgctcctgc tgccgatgct ggacgatgac 120
 atctcccgtg aggtccagcg cctagatgct gatatggacc gattcatcag ggcccagagt 180
 gagcgcatga ggcagtctat attggagaaa gttcaggcaa agcagtttga agcgctggcc 240
 tctgttgaag acaagatcct ccgaaaaata cgcgataaag agtcagaagt gcagaaacatc 300
 aacaaaagga acctggaact cgaggaccag attaaacaaa tggcagggga agttgggtgcg 360
 tggcagcaac gagctaagta caacgagagc atgatcagcg cact 404

<210> 4504
 <211> 415
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB103-059-Q1-E1-H10
 <400> 4504

gacgggggggt ggggagcctga tctggaagaa gaaatcactt gtagtaacat tggtccttga 60
 aatgggtgct atcatcggct gtacctaatt gatgttctga tagcccttta gctcgcatag 120
 aaaatttcac gacgcccttg taatcaaagt tagtatcagt agtatttttc aatcaaacgc 180
 attaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 240
 aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 300
 aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaggggggcc cccaaagggt tacaagttta 360
 ttttcgcgga aaagagttgt aaaaccctt caaaggggcc cccaaattta attac 415

<210> 4505
 <211> 422
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB103-059-Q1-E1-H12
 <400> 4505

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 ttgtcgagat ccgatgaatt gtgggtttat gatcaagatt atctatgaac aatatttgat 120
 tcttctctgg attcttttat gcatgattta aatatctttg caagtctctt cgaattatcg 180

gttttagtttg gcctagtaga ttgatctttc ttgcaatggg agaagtgctt agctttgggt 240
tcaatcttgc ggtgctcgat cccagtgaca gaaagggaaac cgacatgtat tgtattgttg 300
ccatcgagga taaaagatgg ggtttatatc atatttcttg agtttatccc tcgacatcat 360
gtcatcttgc ctaatgtgtt actctgttct tatgaactta atactctaga tgcacctgg 420
at 422

<210> 4506
<211> 380
<212> DNA
<213> Triticum aestivum
<223> unsure at all n locations
<223> Clone ID: LIB103-059-Q1-E1-H4

<400> 4506
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tcacaaaacc gtaatggcca acctggcttc caagccaaag gaaatcccaa ccgggaaacg 120
gaacaaatcc tcaatcctgg aacctccaaa gccaaaaatt ctggcaaaag ggtaaattcc 180
ggctgtccgg aaaccccccta atcaaggact ccctcaccca tagcatgcac ttatggtgaa 240
ccgttatgtg atgaagtcgg agcatgattt atttattgat cgtcttcctt atgagtggcg 300
gtcggggacg agcgtatggtc ttttctacc aatctatccc cctangagca tgcgtgtagt 360
actttgtttc gataactaat 380

<210> 4507
<211> 333
<212> DNA
<213> Triticum aestivum
<223> Clone ID: LIB103-059-Q1-E1-H8

<400> 4507
catcatgaaa ttggtgatgg aggatggttg gtgatgacga tggcgaccga tccccctctc 60
cggagccccg aacggactcc agattagccc tcccagagagg ttttagggct tggcggcggt 120
tccgcatcgt aaaacgtgat gatttcttct ctctgatttt ttctccctga aactcaatat 180
atggaagtgg agttggagtc ggagaggcaa cagggggccc acgaggtagg ggcacgcct 240
aagggggcag gcgcaccccc caccctcgtg gcaaggtggt ggccccctgg ccttcatctt 300

tggcaggttt ttttcttatt ttctgaaaag tgt

333

<210> 4508

<211> 410

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB103-060-Q1-E1-A10

<400> 4508

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acctgggaat atgatcctct gtctcgtcgtc gtttccgacg ataaccagag tctcaggggc 180

tactatctac acagggcaca cctagcatgt gcaggactat catatattct ttacgtacc 240

tcaaagcctg tcagtagact cataaaagct tcatgcaatc tgctttcggc ggacgatatt 300

ctctccatca ccgtattcat cagcacacgg tggtcatctg agatggccgc tcgccccacc 360

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<210> 4509

<211> 394

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB103-060-Q1-E1-A11

<400> 4509

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ggacttctgg cgcattgtcg acgcgtcgca ctacgagcac tgccggcaga aatacggcgc 120

cgtgggcacc ttcatgagcg tctactacaa gagcaagaag gggcgcaagt ccgagaagga 180

ggtgcaggag gccgaggccg ccattcctga gcctgcctac gccgacgagg cctaggcgtg 240

ttcgtcgtcc atcgccgtcg tgctcgtcgt cgcccgcccg tgtctcgccg gtttcggttt 300

cggtttcttc ggtcgtcgga actctggatt aattgggtcc cttttgcttg gttgcttatt 360

aataagtaga acttgatcga tcgtgtagcg ttga 394

<210> 4510

<211> 373

<212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB103-060-Q1-E1-A2
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 agtctcatca tgggtgctgta taaattcagt ccaccttgtc actgctcatc gatcgacctg 180
 cttggcgctcg cggtacagtt agctcaccat ccgttccgta tcagagaatg ctgccatgcg 240
 tacgttcaca gtgattcctt gccgaacggt tcgattgcta tgcacctcag aactaactct 300
 gcggttggtta ccctcgacct gtaattagtc cattatatat gtatatgttg catttccaga 360
 gccaaaatat tgt 373

<210> 4511
 <211> 404
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 <213> Triticum aestivum
 <223> Clone ID: LIB103-060-Q1-E1-A3
 <400> 4511
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 ccgaaaaaac tctcaaaata atataagtga agcatgagag atcaacaatt tctacaaaat 180
 taagccaccg ccgtgctcta aaagatataa gtgaagcact agagcaaac tatctagctc 240
 aaaagatata agtgaagcac atagagtatt ctaataaatt ccaatcaagt gggtttctcc 300
 caaaaagtgt gtacaacaag gatgattgtg gtaatctaaa aaagcaaaga ctaatatcat 360
 acaagattct ccaagcaaaa cacatatcat gtggcgaata aaaa 404

<210> 4512
 <211> 419
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB103-060-Q1-E1-A4
 <400> 4512

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 tgttacggtg gatgccacgt gtcggtcacc cttgaggaaa gcacttttgt gacgcgcgat 180
 ttatcgatcat ggaagtggac actttcatga tgataatttt ggtaatgtca tggaacactt 240
 ctacgacagc acaggtatga ctatcttgat tctgtcataa atttgtaatg gatgtacatg 300
 catgacaaaa aagcgacctt ctgtgacaaa gacgtatcat cacggaagtg tattttttta 360
 gtgatatggg ggacaatata gagtacatgt gtctatcacg agattattcc aatgaatat 419

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 <211> 326
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB103-060-Q1-E1-A5
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 tcacgtgcac ccggacctag gcatctcttc taacgccatg tccatcatga actccttcat 180
 caacgacatc ttcgagaagc tcgccgggga gtcggccaag ctggcgccgt acagctagaa 240
 gccaccatc acgtcccggg agatccagac ctccgtccgc ctcgctctcc ctgtggagct 300
 cgccaagcac gccgtctccg atggca 326

<210> 4514
 <211> 342
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB103-060-Q1-E1-A6
 <400> 4514

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 ggttgaactt gtgatcgttg agatccttgg tcttagatga agaaactagt agtatgttgt 120
 tccattgttg ctaccattg acaattatta ttgtctgttg ctccatcact ggaattggtc 180
 tgggtgatgt gagatttgtt ctatttgctg gaaattcacc ggcagttaa gttatgtgaa 240

gctcaaattg tagatttggg catggaagga tagttgataa gcacaaaaaa aaaaaaaaaa 300
 aaaaaaaaaa agaataaaaa aaaaaaaaaa aaaagaaata aa 342

<210> 4515
 <211> 473
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB103-060-Q1-E1-A7
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 tcaacggatc gttccgtatc cgtgtgcggt gccccctcca ccatattcca cctcgggtcat 120
 atcgtcgcgg agtttagcgg aagccctgcg ccggtagagc atcatcatag tcaccacgcc 180
 gtcgtgctaa cggaactcat ccccgaaact ttgctggatc ggagcccggg gatagtcac 240
 gagctgaacg tgtgtgaac tcagaggtgt cgtacgttcg gtacttggat cggtcggatc 300
 gtgaagacgt acgactacat caaccgcgtt gtcataacgc ttccgcttac ggtctacgat 360
 ggtacttggg ccacactctc tcctctcgtt gctatgccat caccatgatc ttgcgtgtac 420
 gtaggaaatt ttttgagatt actacgtccc catcaggaat gttcttttcg cat 473

<210> 4516
 <211> 497
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB103-060-Q1-E1-A8
 <400> 4516

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 tgaacattgt atctggatct catttaatac gagatggcta ctcatctaaa tccgagaata 180
 atggttggtc tatttatatg agagatatgt tttatgggtc tgccccgatg gtcaatgggt 240
 tattcttaat gaatctcgaa cgtgatgtta cacatattca taatttgaat accaaaagat 300
 gtaaagttga taacgatagt cccacatact tgtggcactg ccgccttggg cacattgggt 360
 tcaagcgcat gaagaaactc catgctgatg gactttttaga gtctctcgat tatgaatcat 420

ttgacacatg cgaaccatgc ctcatgggca atatgaccaa gactccgttc tccagaacaa 480
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<210> 4517
 <211> 404
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB103-060-Q1-E1-A9
 <400> 4517

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 aggacgagga gattgaggat gacgatgctg aggatggtga ggatcctgtc aaggcgcaat 180
 cctcatcaaa gaggaagagg tctggtgggg aggatgaaga tgatgacgac ggtgatgatg 240
 atggtgatga tgatgagaag cctccatcaa agcgatagtc aatttggttcg tgctgatctg 300
 tgatcttctc tgcttgggcc aagaaggaaa ataatcctca tggagaggat tgttggtaaa 360
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<210> 4518
 <211> 406
 <212> DNA
 <213> Triticum aestivum
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 gtaagtgcct atttggttg tctttggctt gctgcccttc aagctgcagc cgcaatggcc 180
 cgcagccttg ggcatgatga ctatgctgac aggtgcatgg tgaaatttgc aaaggctaag 240
 cacgtgtttg aagccaagtt atggaatggg tcatatttca attatgatag tggaacaagt 300
 tacagtagcc actccatcca ggcagatcaa ttgggcggac aatgggacac tgcacatct 360
 gggtttgcac ctctgtttga tgaggacaga ataaaatgca cgcttc 406

<210> 4519
 <211> 388
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB103-060-Q1-E1-B11

<400> 4519

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gaaggtggta aacgggtcaaa gaatcaaaca ttatatctta ggtaatccta taaatgttga 180
aaccaatatt attgaaaccg taaccccgag gaatacataa gggacacttt ccagaacggt 240
tcagactccg aaaaggaata agtatgtggt acggtaagta aaccgactcc aaaacaattt 300
ttaaggcaat atttctccgt tttggaatat ttagaaaaat agaaagataa gtatcagtcc 360
gggaaggaca cgagggcccc acaagggt 388
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<210> 4520
 <211> 425
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB103-060-Q1-E1-B12

<400> 4520

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ttaaattgga acctggggtc ccaagaccaa cccgggaagg aaaccccggg ccggcgggctt 180
aacgggggta acaaaacccc cttcctaacc acctgtcac aaggtcagga taacctttgc 240
ttaactctgt cgtaaaccat gcaaactaag ccttgccctaa actgtcatag acaacactaa 300
ccaacgaagc gatgggctag ctgatcaaag ccgagcccag tcggagtcgg atcaagagtg 360
tgctgggaac gcaaaggccg cctgcgcttg ccaccgaaaa ggacaacagc gagatacctt 420
tgtgt 425
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<210> 4521
 <211> 112
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB103-060-Q1-E1-B3

<400> 4521

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aaccgttttaa ataagtgtca agttgaaatt caatgatgta tgcaactgaa gg 112

<210> 4522

<211> 358

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB103-060-Q1-E1-B4

<400> 4522

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taataattaa gggtaacctt aagggtggcaa cattaacaca catctgggtg gattggtaag 120

gggcaccctg aagaaaccag tggacttgtc cggaaccct ggagaaacca gtggacttgc 180

ccagtggatc cgggagtacc tgtgtgatca ccctatggac tgccaaccaa gatcaaaggg 240

attcatcaat ttttcatgac tagaagctta cgtgcacagc cacaagctat tatgggctct 300

ggcttagttg agtaagttgt gtgacctctt acggtggtag actagcagat gtagttat 358

<210> 4523

<211> 367

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB103-060-Q1-E1-B5

<400> 4523

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ccttttgtgc ctattgtttg aggcaaaagt ctcgaagact gtcagcactg tatggttggt 120

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taccgcgagg agtatccaac atgctctaag gctgtgggtt cgtatggtat ccggtattgt 240

gtgtatcttg catggcctat cgagccatcc ctgtaggacg gttccgtgcc ctgtaatggg 300

ctttgatttt ttggttactg gatcggggcga aaaacaaggg tgcaaccttt ttgtccggac 360

gaggggt 367

<210> 4524
 <211> 211
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: LIB103-060-Q1-E1-B7

 <400> 4524

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 ctcttcacga tcctatctta atttctcgtg gattcaagtt ccaatctctt ctatgggtgtc 180
 tgcgaaatgt tgttcaatgc cccgtcgttt t 211

<210> 4525
 <211> 209
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: LIB103-060-Q1-E1-B8

 <400> 4525

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 ccgcttgaaa tcgcgagaa actcgaaccc acccctagtg aaatgtcaag tatttccctt 180
 ttgcctggag acgcgtactt gctgttttt 209

<210> 4526
 <211> 393
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: LIB103-060-Q1-E1-B9

 <400> 4526

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 acgtcaataa gcactggacc tgtagatga gaaggagat atggctttgg ctcatattggc 180
 ggtttaccaa caagaccgt agcgttatca caaccgtcgg gttaaaacaa taacctttca 240

agaaggtgac ttaatgcccc ggctcatcca ggatcagacc gatatgcaca agttatcccc 300
accttgggaa gggccctttg tggtcagcaa gaatctgcac aatggatcat actacctcat 360
tgacattccg agaagactca cgcacttctg agg 393

<210> 4527
<211> 246
<212> DNA
<213> Triticum aestivum
<223> Clone ID: LIB103-060-Q1-E1-C1
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catcacttat ttcaatccaa aagtcaattt caaccaaatt ggaaggatgg ccggaatttc 180
gaaaggtata aggtacaatc caacgggtgcc gaattggaaa aatttggtta tggcccaaaa 240
gaaaat 246

<210> 4528
<211> 409
<212> DNA
<213> Triticum aestivum
<223> unsure at all n locations
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<400> 4528

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cccccttcac caggtcgtcg gcgctctca cccggtacta caggacctgg taattgcata 120
ngcgggggtgg tggctctccgc acatgcttgt tgatgtgtgg ttattggtgt gctcttggcc 180
ggctccagac gaataagatt cttcatccat agcagcacc aacccttgca gcttccaatc 240
cgcgggcggg tctcgtcgtc ctctcccaca tgctgtactg gaggaggcaa atcctcgtgc 300
cccgattcca cactggacaa gctaaccctg aagtgccag cagggatcgg ctggttgtgg 360
aacgtggggt gcaaggggtc cattatcatc ncctttccta cgtccatct 409

<210> 4529

<211> 349
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: LIB103-060-Q1-E1-C11

 <400> 4529

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 ccttgcaaaa ctatttcggc tctctgtctg gcctctgcga cttggtagat tctcatggac 180
 tccatggtgt tggatgatgt ggaggagga ggggtgcgtgt tagctaagtt agtccactcc 240
 ccttgttcgt gttttgtaag ctaattagta gtatcggtag taccagtata tggaactttc 300
 aatcggttca cgggcgagtt gtgtgctaca aaaaaaaag agagagaag 349

<210> 4530
 <211> 299
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: LIB103-060-Q1-E1-C2

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 ggcagaaaac tcgaaccac ccctagtga atgtcgaata tttccttttt gcctggagac 240
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<210> 4531
 <211> 338
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: LIB103-060-Q1-E1-C3

 <400> 4531

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agggcttgga aacttccaaa atcaacacct ccaaggtgct caaccaggtg caccccaact 180
 tggcaatctc ctcaaaggca atttcaacca tgaatccctt catcaacaac atcttcaaaa 240
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 ggaagatcaa gacttccttc ggcctcttct tccccggc 338

<210> 4532
 <211> 414
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB103-060-Q1-E1-C4
 <400> 4532

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 catggcaatt tgcttttagg cataataaga agctttcata taagtgcatt gaataactaag 180
 aaaagtttga tgcttgatga ttgttttgag atatggagat agtgatatca aagttgtgct 240
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 cacatatggg aaacattgtg taacaaattt gaaacatgag gtgttatttg gttgtcttcc 360
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<210> 4533
 <211> 495
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB103-060-Q1-E1-C6
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 agaaagaata tatgcaatca aaacctgcta gagatgcagc agcaaaggct aagatggaag 180
 ccgaagcatc cgcagcaatt gaatacccggt ttcacatgga taacgagtgg aacattagtg 240
 ttcttgatga tagtgacaca gcaacgtcaa gcgttcaaag ggctgcaaca gacatccttc 300
 cagaaggcct tgtccgtgaa cttccagatg aagataccta cgtggaacca cctgctgcac 360

cagccagctg tgggtgccatc gatgacgatc tcgaggagct ccagcggcaa ctcgacgccc 420
 taaactcatc ttgacctcgc gcagatctgg ctcaaacagt gcattggaaa accaaaccag 480
 atgccattgt ttgcg 495

<210> 4534
 <211> 390
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB103-060-Q1-E1-C9
 <400> 4534

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 tggagatcac ctgggctgaa ttgagatcaa cggttgaacc atcctttgct gagagatcaa 180
 taatatatca cacggattac ctccacacag gcaacaatgg taacatcttc ggcattcagt 240
 atcactgaca catgctgttc tgactgctga tggtaaatca cttgcatatg attacctcgt 300
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 ccagagagat aacgagaaga taaaatcttc 390

<210> 4535
 <211> 405
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB103-060-Q1-E1-D10
 <400> 4535

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 acaaaaactg ttggagcctt atggcatatg tgaggttccg agaacaggcc ggcgggcact 120
 aatccgtgaa tccaggggtgg actccaagta cctccgcggc tactctcttc cactgtaata 180
 agaagtcatg tgcaacgacg acccaagaag ggtcacttgg ttttggttga gctgagcaga 240
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 cccatgtatt gcatcgacaa gcagaataag tacatgcctc ctttt 405

<210> 4536
 <211> 361
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: LIB103-060-Q1-E1-D12

 <400> 4536

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 gtgttatctc gattatgtgc cgtgctggca tttggatctt aatcttaatc cgttcgtctg 180
 gcaccaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 240
 aaaaaaaaaa aaaaaaaaaa aa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 300
 attaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 360
 t 361

<210> 453
 <211> 244
 <212> DNA
 <213> Tritic.

 <223> Clone ID: LIB103-060-Q1-E1-D2

 <400> 4537

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 gattcttggt ctgccaggg catccccact cacagatgtg atggtgtgat attgataatc 180
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 ccgc 244

<210> 4538
 <211> 399
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: LIB103-060-Q1-E1-D3

 <400> 4538

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 gagatctgct ttcgcaatta gaatctctcc gaaaggagaa tagcaccctg cagaatgaat 120
 cccattatgt tacaatggag aggaatgagc tgcaggatga gaacgatgtg ctccgcaacg 180
 aaatactgga gctacagaat gaactggcga cgcgtcctgc aggcaacca ggttggggcc 240
 atgctactgc tggatgcct cgcgtgcga gcacagtttt cccgtcacat cagccaatgc 300
 agccgagcaa catcgcaagc gcagtattcc cctttgcagc agcactgcaa cagacaacca 360
 tcctggaaca accttatgca ccaccaacac caccacggg 399

<210> 4539
 <211> 461
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB103-060-Q1-E1-D4
 <400> 4539

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 atatgttgct gggtacagat agtttctcaa aagagtattc agagataaat gaccagtcct 180
 atccccccag aggtgtacgc tctaacttgg taggggtata ttgctcatat caatcatatg 240
 gtgtcttgca ttgctgtgcc atcttcttag tttagacatg ctttgtgtga atgctacttg 300
 tttagtttct atattatata tgtgaattat gcaatgccat cttgttttagc tgggcaacat 360
 atatgtgaat tatgcaatgc catcatgttt agccaagaat catatatgtg aattatgtca 420
 tgccatcctt tttccatta cgtattccat ttatcgacaa t 461

<210> 4540
 <211> 315
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB103-060-Q1-E1-D5
 <400> 4540

gtgaagagag ctcatgtcc accccagtg agtcttgcaa cgtgcgtttt tgtaaagtc 60
 cggcactctg cacaatgacc tgttcctttg agttttgttt gtcttgctgg agttatagat 120

tgtgttatct cgattatgtg cegtgtctggc atttggatct taatcttaat ccgttcgtct 180
ggcaaaaaag aaaaaggaaa agcaaaaaaa aagcaaatga aaaaagaaga aaaaagaaaa 240
aaaggattaa cacaccataa aaaacaaaat tgaccggaaa aaaaaaacgg gccgccccaa 300
gggttcaaac tttag 315

<210> 4541
<211> 506
<212> DNA
<213> Triticum aestivum
<223> unsure at all n locations
<223> Clone ID: LIB103-060-Q1-E1-D6
<400> 4541

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ttatatattgt tagagcgtgg gcatatcttt tgtagaaaga attaaactct cttgcttcac 120
ttatatctat ttagagagat gacaggaact ggatcattcac atggttagtc ataaaatcct 180
acataaactt gtagatcgct gaatatgata tgtttgattc cttgcaatag ttttgcgata 240
taaagatagt gatattagag tcatgctagt gggtagttat ggattagat aaataactgt 300
gttgagggtt gtgattcnog tagcatgcac gtatggtgaa ccgttatgtg atgaactcgg 360
agcctgattt attcattgat tgtcttcctt atgagtggcc gtcggggacg agcaatggtc 420
ttttcctacc aatctatccc cctaagagct tgccgctagt actttgtttc gatgtctaata 480
agatttttgc aataagtgtg tgagtt 506

<210> 4542
<211> 479
<212> DNA
<213> Triticum aestivum
<223> unsure at all n locations
<223> Clone ID: LIB103-060-Q1-E1-D8
<400> 4542

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gggccggcgc aaaaccgaca gcagcgagct gcaggtgcag gtcgacgaca agccatagcc 120
atggaatgaa tgccgagcct ctacgattc attcattcac tcaccgtgtt atcacgaagc 180

atcataatac gtcacgcca atgatggagc tggctgctac tatttttgta gattatTTTT 240
 cttataatTT tggggagatt ggcaattgtt ccatctgtgt agattcgatc ccaagctata 300
 ggctagatcc agtcagtcca aataagtga gagtgcggtc gttgcttggg agcccccatc 360
 cacacccctc ctggagttgc tgaaagggtg tacatgtccg gattgagagg ggttgttggc 420
 cccgacatga tgataatgag aaccagtagc aaatacaana acggaaacgg ccccgtaac 479

<210> 4543
 <211> 409
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB103-060-Q1-E1-E12
 <400> 4543

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 tgatgattgt tttgagatat gaagatgggt atattagagt catgctagtt gattagttgt 120
 gaatttgaga aatacttgtg ttgaaatttg tgattcccat agcatgcacg tatgggtgaac 180
 cgttatgtga cgaagtcgga gcatgattta tttattgagt gtcttcctta tgagtggcgg 240
 tcggggatga gcgatgggtat tttcctacca atttatatcc ctaggagcat gcgcgtagta 300
 ctttgtttcg ataactaata gatttttgca ataagtatgt gagttcttta tgactaatgt 360
 taagtcctg gattatacgc actctcacc ttccaccatt gtaacctc 409

<210> 4544
 <211> 385
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB103-060-Q1-E1-E2
 <400> 4544

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 aaaattgtca agaagcttgg agctcgtggg gtcattggaag tctatccata agtttgtgat 120
 gcaaagtgtg tgatggtgac cgtttgggtat aaataaagta cgtagtgggtg tgctataaga 180
 aataaataag ggagtctggg gccttgcttt ttaatggaaa acacaatgga actcaaatta 240
 gtagttcagc ccgtgccttg tcacaacata accggagcgt gtattttaa tagttttgag 300

aagtattgag tcactcagtg tgtgtctgtg tacacggtat gtctgtatgc toccaacatgc 360
tgaaatatca agtttatatt atgtt 385

<210> 4545
<211> 265
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB103-060-Q1-E1-E3

<400> 4545

ggtcgacagg ctcttcaagc tgacggaggg tgcaaaaccc aaaggagaaa attgacaaaa 60
tgtttaaagg cgaaaagata aataccacgg agaaacagtt aattgctcaa ggtggctttg 120
aaacccccag aaaatgcatc cataacaatt gacggtgtga acttggcccc cgaatttggg 180
gcggttaaagg ataaaatcag gcagtttcca aaaactttca ggattggccc atggggttggg 240
gcaaccggga aaccgttgac aaatg 265

<210> 4546
<211> 395
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB103-060-Q1-E1-E4

<400> 4546

ggtcgaccgg ggcacataac tcagtgcgc ttatatcgat ctcccctata tgtacccatc 60
catgcaatgt gtttatgcag catcaagtt ccaaccaagt tcagaagatt aagaaacaag 120
cttcttgagg tccatttagc cgcctgttcg atcaacaatg agtccatgg acgtcacagg 180
caccgaaggt ctgccgttg attcgtggca gaagtcgtgg ccagaggtgg tgggcaagtc 240
cataaaggag gccagggaga tcattctcaa agacaagccc gacgccgaca tcgtcgtgct 300
gccagccggg tcgccgtga ccccgactt gagggccaac cgcgtgcgca tcttcgtcga 360
taccgtcgct gacacaccct tcactggcta gctct 395

<210> 4547
<211> 483
<212> DNA
<213> Triticum aestivum

<223> unsure at all n locations
<223> Clone ID: LIB103-060-Q1-E1-E7

<400> 4547

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gccttgctga cgatttgaaa accctagaga gtaatagtag caagcctcgc acttcggaaa 120
ctctatcgtg aacaaacaat ggcatacata agcactcaag cataagatgc aagggtaaaa 180
ctcaaaagaa aagatccaaa ctgaacgttc aactgaagag ctttgatttg caaaaagaat 240
caatcgaatc ggacctacga acacaaactg cgatcaaacg aagttcaaat tcaaactctgc 300
ttgaaaccaa attttaattt gttaaaccac tgttcaagtt gattatctgg aaagagggta 360
acaagacgaa gattttggcg ttggtttcac tggatttgga cgaacgagca aaaagtagcg 420
agggtttgaa gatcanggac taatctgtga tagaagtatt cgtggatagg tcctgnccg 480
ctc 483

<210> 4548
<211> 409
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB103-060-Q1-E1-E8

<400> 4548

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agtaggagag gcgatttttt ccccttcccc gttegatcta gttegcgggc ggaggctcgc 120
tggtttcccc cctctgccg gccgcttcgg cggcgggagg gtgggggaaac ctcggttccc 180
gtctgtacat agctaggatg gagtgggtgg ttcgccggca gcgccgtgga gaggaaggcg 240
ctgtcgggtt ggtggtttgt ggcggcgggtg atcttctccg gtggcgggggt tctgcggaat 300
ccgaccactt cccgcctcc ttccgtgtgc tcgtaactcg gcggagttgc cgtgcgcctt 360
cttcccgtgc cggagtccgt aggcggcggc tccggttggt gaaagtttg 409

<210> 4549
<211> 299
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB103-060-Q1-E1-E9

<400> 4549

gggcaaaggc gcacgtgcag aagggttcca agggcccaaa gattggcggc ggcgggcgga 60
agcgttgaaa gtgcgttgaa agtcgattac gccaatagac atagagttgt gctgcctagc 120
cttgtttcct atcctactat catagacctt tgtcaagtta ttaccccgcc ctcttgaatt 180
tgcaccttat ctgtgaggct gaatgggttt aacgttttgg attgtctcga tgagtttatt 240
tataatgaat ggtacttatg ttggttccaa aaaaaaaaaa aataaaaaaa aaaaaagga 299

<210> 4550

<211> 407

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB103-060-Q1-E1-F10

<400> 4550

ccaaggaaac aaaggccccg gccttggaac cccccccct cctcctccgg cccccggcgt 60
tggcggaact aacaaccacg ccaaccaaca accccaacac caccaccacc agcaacatga 120
agggaactac ccaaattggt aaatttgcta taagtttcat cctggagggtg caagggcctg 180
ttggcatcgg tatgatgatg aacatgaaga gaagaagaag gccaacctcg tcaccaactc 240
ctacgggatt gatacaaatt ggtacgcaga ttctggagct accgagcaca taacggggga 300
actagacaaa ttgacaatgc gagaaagata ccacggaggt gacaaaaaag caatccaatt 360
ccccaccagc cccctcgcac cttccggcga atcaccgcac ctctccc 407

<210> 4551

<211> 382

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB103-060-Q1-E1-F12

<400> 4551

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acaagcacgg tatccccctt gtgaaaagcg ttaccggaag caagatcctc cgcacacctc 120
aggctcatgg cctggcgccg gaaatcccag aggatctgta ctttttgatt aagaaggctg 180
tggccattag gaagcatctt gagaggaaca ggaaggacaa ggactccaaa ttcaggctca 240

ttcttgttga gaggcaggatc caccgtcttg cccgttacta caagcgcacc aagaagctcc 300
 cgccacctg gaagtacgag tctaccactg ccagcactct ggtggcttaa gagggctctt 360
 catctggtgt gctcttaccg gc 382

<210> 4552
 <211> 380
 <212> DNA
 <213> Triticum aestivum
 <223> unsure at all n locations
 <223> Clone ID: LIB103-060-Q1-E1-F2
 <400> 4552

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 aaggtagatt ccgtgtccgc acctagtttg cgggctcgac atgtgcacga ccggattcca 120
 ccgcgacagc caccatgcgc acctcctccg cacggggcga gacggtaatg acacgctagt 180
 tcctcctcgc cggcgtgcta gagcatgcgc tcgtcctcct cttegtatgt tgtgtgcata 240
 gactcggctc caccagctgc tcacgtgttt ggcacgcag cggcatcgca nggagggact 300
 gcagacggcg tgagcgggcy agccttcggc ttcatggcac agggatggcg gcgacacggg 360
 ggtgatgggt gagaaatttt 380

<210> 4553
 <211> 414
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB103-060-Q1-E1-F4
 <400> 4553

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 aacaaaatct caagtagatg atcagcagtg gcttacttac tgggtgctgt actcgtttat 120
 cactttgttt gagctcactt ttgctccgat acttgaatgg cttcaattct ggcccaatgg 180
 aaaactgttc ttcaactgct ggctagtctt cccctgcttc aatgggtgctg cttatgttta 240
 tgagcatttt gcgcggccaa tgtttgtgaa tcgccaaata gtcaacatct ggtacgtctc 300
 aaggaaggat aagttgagta tacctgatga tgtactocca acccgagag aaatatattg 360

<210> 4556
 <211> 422
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB103-060-Q1-E1-G10
 <400> 4556

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gctttgtggc aaattgtttg ggaaccggtt tatgcattgc aattgcaacc ctgagctgct  120
gcaaatgttt gaactgatga ggtttatgca ttttgaactt aatagtaatg ctatttgcac  180
gccttcaaat ttggaagcaa atgtttcagc tgtgccaaaa aaaaaaaaaa aaacaacaaa  240
aaaaaaaaac tgaacataa acaaaaaaaaa aaaaaacaaa ccatacaaat aaaaacccaa  300
agacaaaaaa aagagcacat ccaaccaaaa caaaagcgac acgggaaaaa caagataaaa  360
acttgcttca aaaggcccc aaaaatttcc ccataactcc aaaaaaaaaa aaacggcccc  420
cc                                                                 422
  
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<210> 4557
 <211> 406
 <212> DNA
 <213> Triticum aestivum
 <223> unsure at all n locations
 <223> Clone ID: LIB103-060-Q1-E1-G11
 <400> 4557

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ggcataatga cgaaattgca aagattccca agtggatgac taaggcctag gaggatatca   60
acgctgaaaa ctcaaggatg gccgatttgc aagctcacat caatataaag gcggagcgtc  120
tgaaaacacg ggcttggcgt ctaaaccctg agcagaatgc ttccaacgca gttcatgagc  180
ggaggtacct aatgcggctt gaaactacgt cggtatttcc ccaaagagga agggatgatg  240
cagtacagct atggtaggta tttccctcag ttatgaaacc aaggtatcaa tccggtagga  300
gaaccaagca acactatgta cacagtacct atgcacaaag aacaaaccct tgcaacccaa  360
catgtaaggc atcaatctgg tangagaacc aagcaacact aaaccg                    406
  
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<210> 4558

<211> 159
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: LIB103-060-Q1-E1-G2

 <400> 4558

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 ccaaaccagg gattaattcc gggcgggaac aataaggcgt tgggaattcc cccgaagggt 120
 acctaatggc atccaatcaa ctccccgggg cttcgaacc 159

<210> 4559
 <211> 132
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: LIB103-060-Q1-E1-G3

 <400> 4559

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 ggcaccattt taattgagga attggagcca attggcgcaa accgttttgc catccagtta 120
 ttggggggcca cc 132

<210> 4560
 <211> 394
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: LIB103-060-Q1-E1-G5

 <400> 4560

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 tagagcgggtg cccatagagg tacgtgccat acggcctatc ccagaggagt cccgccactg 120
 gttgttaaaa ccaatcacct tcgaccatca ggattactct agaagtatcc ggtatgcagg 180
 atggactgcc ttgatattag atctgataat tgacggactc caatttacac aagtcctaata 240
 ggacggcggc agtgatctaa acctgctata ccaggacaca agccgcaaaa tggggataga 300
 cccaacaaaa attcaccata gcaacacttc ctttcaagggt gtaatgccag gccacatgc 360
 ccattgtacg ggctctctac tgctagaagt tgtg 394

<210> 4561
 <211> 513
 <212> DNA
 <213> Triticum aestivum

 <223> unsure at all n locations
 <223> Clone ID: LIB103-060-Q1-E1-G7

 <400> 4561

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aaaagaagag gaagagcatt cacacggggt catatacaca agatgaggac aagtttattt  120
gccaagcttg atggagatta gccaagatcc gaggaccggc gcgcaacaaa agggcattgt  180
tttttggacg agagtccaca gaacattcca tgaaaggaag atgtttaagc cctaccaaatt  240
tacaagcaac cgtggcatcg gctctattca aaaaagatgg ttgttcatcc aacaagagtg  300
caacaagtat tgcgctgcat ttgagagcgt tgaagcacgt cncgtgagtg gtctcggcgt  360
tggggacatg gtatgctctc ctctttccag ccctttcctt gctacggcca tgagacttcg  420
gccgtgtata tgtttgcatt ttacttgggt gttgatcatc tgggtgtaggc atttcaatct  480
ttggaggcat tcaaggcccg acacaatgac aag                                     513
  
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<210> 4562
 <211> 488
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: LIB103-060-Q1-E1-G8

 <400> 4562

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agcgatggtc ttttcctacc aatctatccc cctaggagca tgcgcatagt actttgtttc  120
aataactaat agatttttgc aataagtatg tgagttcttt atgactaatg ttgagtccat  180
ggattataca cactctcacc catccacctt tgctagcctc tctagtacca cgcaactttc  240
gccggtacca taaaccacc atataccttc ctcaaacag ccaccatacc tacctattat  300
ggattttcca tagccattcc gagatatatt gccatgcagc tttccaccgt tccattttatt  360
atgacacggt ttttcattgt catattgctt agcatgatca tgtagttgac attgtatttg  420
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ggtacacg

488

<210> 4563
<211> 414
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB103-060-Q1-E1-H11

<400> 4563

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aacccgatat cacgaaacga ccacacactc ctattggaga tgaggtggaa tgcaagaagc 120
catagatagc agaaggctca aggtgcccaag gagaagaacc tgatgctgga gggataaaga 180
attcctcctg ggtctgatga caggggaatg cagtaaacac cagaagcatc aaaactatga 240
tctggaacag tatcctgaat aaactatttt ctggattatg aatgaattct gaagcatggg 300
gctataagtg aattatgtaa catggatttg taactatggg ggatgttaag ttaacgttct 360
atcagtgcac cgtgaatgag tgctcaaaaa aaaattaaaa aaattattca aaaa 414

<210> 4564
<211> 397
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB103-060-Q1-E1-H12

<400> 4564

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cttcaactgg attcaaaaaa ccgcttgga ggccgaaaaa ggagaaacaa cctgcatcaa 180
tctctgctga aactggagat gcaaccctg ctgggactgg tgatgctgaa actggagatg 240
caaccctgc tgggactggg gatgctgaaa ctggagatgt aaccctact gaaactggag 300
cagcaacgcc tgctgaaggg ggaaatgctg catcgacagg gatcaagaga ccgcttgga 360
ggcctagaaa ggtgaagaag tttgggaggc caagaaa 397

<210> 4565
<211> 325

<212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB103-060-Q1-E1-H2
 <400> 4565

tcgataaatt taatctcatc aaaagatcgg gacaccctcg cctctatcaa gtggtatcag 60
 ttttcaggtt gctcgggtgag aatttctagt ttcccctaaa ttagattttt tttcttacca 120
 attgtcaaaa aaagccacaa aaaagttaga tctattcatc cttttgtcaa agccagtctg 180
 agcctttgca attttctttt cattgtttgc attattgaat tatcggttgc atcgctcgtg 240
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 tgtcgccgct gcatcgttat ccctc 325

<210> 4566
 <211> 193
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB103-060-Q1-E1-H3
 <400> 4566

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 gcccagggag ctaggcaagc caacctacaa cctaaacaat tgttcaatgg gaactccaat 120
 aaccaactgg gcggaacctt gccaaaggccg aaggtaaaat ccggccccctc ctccctctcc 180
 tccgggggtt ccg 193

<210> 4567
 <211> 297
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB103-060-Q1-E1-H4
 <400> 4567

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 ggctcaagag gttctccac cacaggacca caggctaaaa gcaagggaca agcttcaaga 180
 ggagattgat gcatttgaag aagctcccaa agccttggtc aatttggttc ccaagactac 240

atcaagttct acttcatcat gtacgactac aactccaggg atttccatca aaagggg 297

<210> 4568
<211> 385
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB103-060-Q1-E1-H6

<400> 4568

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cgaaggccga gcagattatc tgtccggccc cattgccaga ggacccaccg gacgccctct 120
taacggggct gctggctccg gcacccacag tgggtctgga aaataaggcc aagaagaagg 180
ccacgggcac tcggaagagt tcccgttttc aggtgttatc ggatgatgac tccaaggctg 240
actcctctca caaagggtgag gaggagaaga agaaagcctc tccccacagc gggggagggg 300
agaaaaggaa gcctcccaa cgagggaggc cgaagggtcc aagaaggga aaactctttc 360
cccgactgc tcctgcaacg ccaac 385

<210> 4569
<211> 382
<212> DNA
<213> Triticum aestivum

<223> unsure at all n locations
<223> Clone ID: LIB103-060-Q1-E1-H7

<400> 4569

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agttgctgca aacttctccg gtgcatccaa accctgtgat atgatacgt atttcacaca 120
taaacctcct tatatcttcc tcaaaacagc caccatacct acctattatg gcatttcata 180
gccattccga gatataattgc catgcaactt ttcaccgttc tgttcatcat gacatacgtt 240
acttttgtca tattgccatt gcatgatent gtagttgaca taatatttgt ggcaanagca 300
caatgcatta tttttcatac atgtcactct tgattcattg caccatcccg gtgcaccgcc 360
ggaggcattc atatagagtc at 382

<210> 4570

<211> 418
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB103-060-Q1-E1-H9
 <400> 4570

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 acggccaagg agaagaagga gagcattgag tcggtcaaga agtggaggaa gcagaggcaa 120
 caggggggat tttccaaggg gaacgaggac gggccaaacc tcaactttga agttgaagga 180
 ctcaagcaac acaagaagca taggcctggc gtttctcctg gtgacaggtc tgggtgtcctt 240
 gctaagcgag gcaaacaagg aaagaaccat aggtcaaagg attccaagtt tgggcatggc 300
 ggccgcaaag ggatgaagaa gcaaaacact gctgagacga cgaatgactt cagaggggttt 360
 aacaaccaga agggcgagtc aagaaacaag aagaggaaga tgttttgata cgggtgttg 418

<210> 4571
 <211> 274
 <212> DNA
 <213> Triticum aestivum
 <223> unsure at all n locations
 <223> Clone ID: LIB103-061-Q1-E1-A1
 <400> 4571

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 aagtgtttgt agcaacattc cttttctggt ttttgacttt gataagagtg taactttatc 120
 tgtggtggtg tagaattcta aagctgaatc gctgtgcctt gtanaagctt gacattgcca 180
 aatggcacca agaaaatttg gcataattat taggcgtgaa tgatgatggg gataaccatc 240
 tgggaatgca naactttaga cttaggtttc tgat 274

<210> 4572
 <211> 402
 <212> DNA
 <213> Triticum aestivum
 <223> unsure at all n locations
 <223> Clone ID: LIB103-061-Q1-E1-A3
 <400> 4572

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 aaaagttgtc aaagaatcaa ttcaaccacac tgcgaaaagc gaccgagaga gagaggaacc 180
 ggaagcaaga agatggggca ggcgctgcgc aggctcttcg actccttctt ctccaccaag 240
 gagatgaggg ttgtgatgct tggtttggat tcagctggca aaacaacaat cttgtatagg 300
 ctgcacctgg gggaggttct tcaaactgtg cctacagtag gttttaatgt cgaaaagggt 360
 cagtacanga atgtggcatt tactgtgtgg gatgttggtg ga 402

<210> 4573
 <211> 387
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB103-061-Q1-E1-A5
 <400> 4573

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 cggtgcaatg caccagcgag gatggcgcag aggagggggg tggcgccgga tcatcgacca 120
 ccgcattctc cattgggacg tcggcgctct ctggatgcct gccggccagc cagtcggtag 180
 caatggctgc catctccttt tggtcctgcg tccggccatc cggaagagtg ctggagcgcg 240
 aggaaaccat cgtgggagtg gtgtggacag gagaaaggga acggaggcaa atgactacgg 300
 ctacggcccg cgcagcagtt tatatagcaa tggtagggcg cagagggacg gacgggtagc 360
 gccggagtag ctgccttggc aatcgtg 387

<210> 4574
 <211> 372
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB103-061-Q1-E1-A6
 <400> 4574

cggaaggact acataagaat tgggtcaagt tggagcgtga ttgagctgta ctcgtctatg 60
 gtgcgtgatt taccgccttc cagtgcgtct gaactcgacg gactagcagt aatgcaaact 120
 gaaaaatgga gcgtgatatt acagctctat gattatatac ctctcagctc acgtctaacc 180

gagattatga caagtatgaa agggcatatt ctataataag ttcgacatag tcacagtagc 240
atcaggatat tcttttagcga gaatactatg agagggcaca ttcgaatcga actaagacga 300
gcgagagcaa cgagcacaat cttggaaccg tacatccaat acagctgggc agcgtgaaca 360
atcgagtcgg at 372

<210> 4575
<211> 453
<212> DNA
<213> Triticum aestivum
<223> Clone ID: LIB103-061-Q1-E1-A7
<400> 4575

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ttgagctcga ggggctttgg aacgtggtgg aggggctgcg ggggtcaccg gcaagctcgg 120
gtcggggacg gcgactagag gcctgcccga tcgggctgca gctaagctac ggggtcgtgg 180
tggttgtgcg gtgaggtttg aggcttcgga gcagaggaag gggctctata tatagccgga 240
ggatgagggg gtacgtggct ccgtcagagt tctctagaag tcggcgagcg acgacgaagg 300
gtgccagcga gggggggaga gctcagcgat catgcgggag ctgttgacgc tcgcggaacga 360
gcacaggaag caaagggggg agaagacacg ggcacgggag cactatggct tttggccgcg 420
acgtaccctg gatcgctatg gcattctccg cat 453

<210> 4576
<211> 133
<212> DNA
<213> Triticum aestivum
<223> Clone ID: LIB103-061-Q1-E1-B3
<400> 4576

aaaatattat tgcgttgcgc gtgttggttaa atttgtatcg acgagcgtac aaataatgga 60
acatatcaaa gattttttgt tttgggttaaa aaaaaaaca agaaaccaa aaaaacacaa 120
caaaccacaa aaa 133

<210> 4577
<211> 451
<212> DNA

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1000
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 200
 100
 0

[illegible][illegible][illegible][illegible][illegible][illegible]

gtggtctttt attttctttc gctaacggag ctcatgaggt tttctacttt aagttttgtg 180
tcatgaagtt ttcaagtttt gggtaaagat ttgatggatt atggaacaag gagtggcaag 240
agcccaagct tggggatgcc catggcaccc ccaagataat ccaaggacac ctaaaagcca 300
aagcttgggg gagccccgga aggcaccccc tctttcgtct acttctatcg gtaactttac 360
ttggagctat atttttattc gccacatgat atgtcttttg cttggagtgt cttgtattat 420
ttgagtcttt gcttgtagt ttaccacaat cataacttgc gtacacaact tttag 476

<210> 4580
<211> 145
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB103-061-Q1-E1-C2

<400> 4580

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aaaagaagat caatgctgta tcaattcatt atgatgacaa ggccatcgac attctcccca 120
atttaaacc ttcaatgggg aaaat 145

<210> 4581
<211> 330
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB103-061-Q1-E1-C3

<400> 4581

acaatcactt cagccagtta gagagtcttc acatagttgc ataattattc gactactcat 60
tgatcttcac ttatatcttt tggagtagtt tgggtgttgc ctagtgcttc gcttatatat 120
ttttagagca cggtggtggt ttaattttat agaaagtaat gaactctcat gcttcactta 180
tattatcttg agagccttta gaacaacatg gtagtttgct ttggttatga aactagtcct 240
aatatgatgg gcatccaaga gggatataat aaaaaattc atatagagtg cattgaatac 300
taagagaagt ttgatacttg ataattgttt 330

<210> 4582
<211> 229
<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB103-061-Q1-E1-C4

<400> 4582

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gtgaaccgct atgcgatgaa gtcggagcat gatttatatt ttgattgtct tccttatgat 120
tggcggtcgg ggacgaccga tggccttttc caaccaatct atccccctag gagcatgcgt 180
gtagtacttc atttcgataa ctaatagatt ttggcaataa gtatgtgag 229

<210> 4583

<211> 483

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB103-061-Q1-E1-C6

<400> 4583

gtgacaatag taaccttact gaattgggtg cggagctaga tggctctacg aaagagcatc 60
acagtctaag atctgccttc gagtatgaga aaaacacaaa catcaagcaa gttgagcaga 120
tgcggacgat ggaaatgaac ttgataacca tgactaaaga ggcggacaag ttacgagctg 180
at ttggcaaa tgctgcaaac agagcacatg cagcacaggt tacacctcca cagcctggga 240
caggacaagc tgcagcgggt tcagcagcca caaatccata tgcaagtgca tataccagtc 300
acctctccgc atatcagcaa ggaacttccc aagccgcggc ataccagcag ggaactgccc 360
aagccgcggc ataccagcaa ggaactcccc aatccgcggc ataccagcaa ggaaccccc 420
aatccgcggc ataccagcaa ggagcccccc aatccgcggc ataccagcaa ggagcccccc 480
aat 483

<210> 4584

<211> 472

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB103-061-Q1-E1-C7

<400> 4584

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gtcttcaggt gggcgctcta catggcaaag cactgtcctc cgccgagctt ttggctaaga 120
 tgcgtggaac gcgagagggg gcagcttcag acgcactgga acatcagctc agcctgggct 180
 ctgcttccaa ccagagacca ggctcgacag agaacggacg cacatctaac tcttcttcta 240
 gtaggaacat tatcgtgcaa cctgaagtcc tgatccgcca gctgtgcacc ttcatacaac 300
 aaaacgggtgg ctccgccagc tcgacgagct tgacggaaca tttcaagaac cgcatacaac 360
 caaaggatat gctgggtgttc aagaaccttc tgaaggagat agcaatgttg caaaggggag 420
 caagcggctc aacgtgggtg ctgaaacccg agtatgggta atttgcggca gt 472

<210> 4585

<211> 483

<212> DNA

<213> Triticum aestivum

<223> unsure at all n locations

<223> Clone ID: LIB103-061-Q1-E1-C8

<400> 4585

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 cgcacctggc gctcaaggcc ctcggccggc cgaacggcat cgacggggacg ctcaagaacg 120
 tgaccccggc gctgcacccg gagatgatcc tggcggcgac caacaacggc gacatcgtgg 180
 acgcctaaag caaagcaatg aaccacggac accaagaggc gtacgtacgc tgggtgtttgg 240
 gggcgcaaaa tcaataagat ggttcgggtga aacggaggat gcttagggac gagggcttgt 300
 ctttgtgatt tgtcagactc gtgtttaatt ccgatgttta tctttagttt tcttgtgtta 360
 gcgtattttg ttcatgccac ctgcccggca tgtgctctgc tctgctctgc ctacggcgag 420
 ctccatggat gatgaatcct tctggaacaa gaggaggga taaaaaggtt gagttcanaa 480
 aaa 483

<210> 4586

<211> 388

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB103-061-Q1-E1-D1

<400> 4586

tataataaaa acgaccatat tgagtgcgtt gaatactaag agaagtttga tacttgatga 60

ttgttttgag atatggagat agtaatatta aagttgtgct agttgagtaa ttgtgaaatt 120
gagaaatact tgtgttgaag tttgcaagtc ccatagcatg cacgtatggt aaacgttgtg 180
taacaaattht gaaacatgag gtgtttctttg attgtaatcc ttatgagtgg cggtcgggga 240
cgagcgatgg tcttttccta ccaatctttc cccctaggag catgcgcgta gtgcttcggt 300
tttgatgact tgtagatttt tgcaataagt atgtgagttc tttatgacta atgttgagtc 360
catggattat acgcactctc aaccttcc 388

<210> 4587
<211> 295
<212> DNA
<213> Triticum aestivum
<223> unsure at all n locations
<223> Clone ID: LIB103-061-Q1-E1-D2
<400> 4587

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ctgagggatt ttgcagtggg gttttagagg tgctatgctg ctgaactgct ctgtgtttgg 120
gatttgaaat aaaacgaagg gagatgtgcc ccgcccttaa aaaaaaaaaa aaaaaaaaaa 180
aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaataaa taaaaagatg ttaagaaggg 240
aaaaaaaaaa aaaaaaaaaa agcggccccc caaaaggttc aagctttaat tacc 295

<210> 4588
<211> 422
<212> DNA
<213> Triticum aestivum
<223> Clone ID: LIB103-061-Q1-E1-D5
<400> 4588

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cggatatgct atcgaaagg ttaggtgctc ctgttgatc agttattgtt ggttcgaagg 120
acttcatata caaggctaag attcttagga agacactatg tggtggaatg aggcaggttg 180
gaattctctg tgctgctgcc tatgttgagg ttgcgcacac ggtaggcaag cttgccgatg 240
accatacgaa ggctaaagtt ttagcagatg gactgaagaa aatcaaacag ttacagtcg 300

atctaacttc agtggagacc aatatggtat tctttgatat tgcggatcca cacataacgc 360
 ctgacaaact gtgtcaagtc ctggaacagc gcaatgtgct tgcaatgcca gcaagctcca 420
 ag 422

<210> 4589
 <211> 441
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB103-061-Q1-E1-D7
 <400> 4589

ggtattctaa aaagaatggt aggaagaaaa ttactgcagc aaagaaaagt gacaagagag 60
 ctcaaataaa ggcaccacct gcaggaagag tcgtcgtgct cgatgagaat ggagtgccac 120
 ttggacacag gaaatctagt ctgtgcaacc aggttgctggg acacaacaag ctgacatgtc 180
 caacactctt ggaaagaaac aatgatgagg aggtcaagca acccaaactc caaaaatagc 240
 agcccaaagt tatggaacaa aagaaggagc cacacccaaa gaaagcaagt agtagacttt 300
 gtagcatatg caaggagtat gaaccacata atgcaagaac atgcccgagg cacgctgatg 360
 ctgaaaagac aagcaaaaag atagagaaga aacataaagc aaaacctaga gccatcaaca 420
 agaaagtggg ggaagatgaa g 441

<210> 4590
 <211> 483
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB103-061-Q1-E1-D8
 <400> 4590

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 agaaactgga gatgcaatgc ctgctcctga aactcgagat gcagcgcttg atgaaaatga 120
 agcagcaacg cctgctgaag ctggagatgc tgcttcaact ggattcaaga aaccgtgtgg 180
 gaggccgaga aaggagagac caccagcatc aatccctact gaaactgaag atgcaacccc 240
 tgctgagact ggtgatgcaa ggctgctga aactggagca gcaacgcctg ctgaagctgg 300
 agcagcaacg ccgctgaag ctggaaatgc tgcacgaca gggatcaaga gaccgcttgg 360

aaggcctaga aaggtgaaga agcttgggag gccaagaaag gagaagccag aagaagcagc 420
aatatctggg gaaactggag atgatgctgc agcagctata tttgctgaat ctggagcagc 480
aac 483

<210> 4591
<211> 253
<212> DNA
<213> Triticum aestivum
<223> Clone ID: LIB103-061-Q1-E1-E1
<400> 4591

agtaccgcat caacaggaac ggtcttgcta caaaggtgga gaagtcacga aagcagatca 60
aggaaaggaa aaacaggacc aagaagatcc gtggtgtgaa gaagaccaag gccggagatg 120
cgaagaagaa gtaagggcct ttgcttggtt taggacggta tccctgtggc aatgttgctg 180
agtgcttaat tataactaga aaagactttg tcatttatgt catctcctgg tatgctaaga 240
ggcattttgt agt 253

<210> 4592
<211> 431
<212> DNA
<213> Triticum aestivum
<223> Clone ID: LIB103-061-Q1-E1-E2
<400> 4592

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tcattacatc ttactcaaaa cagccacat acctacat catggcattt ccatagccat 120
tccgagatat attgccatgc aacttccatc atcatcatat acatgacttg agcattcatt 180
gtcatattgc tttgcatgat cataagatag ctagcatgat gttttcatgg cttgtccgtt 240
tttttgatgt cattgctacg ctagatcatt ccacatcccg gtacacaacc ggaggcattc 300
atatagagtc atatctttgt tctagatatt gagttgtaag taaataaaaag tgtgatgatc 360
atcattatta gagcattgcc ccagtgagga aaggatgatg gagactatga ttccccacaa 420
gtcgggatga g 431

<210> 4593

<211> 395
 <212> DNA
 <213> Triticum aestivum

<223> unsure at all n locations
 <223> Clone ID: LIB103-061-Q1-E1-E3

<400> 4593

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 tcgtttttgt tcgatgagcg acaagctgca taaaattttc tatatccatg gattttgaag 180
 ctaactcttc aaacgtgagg ggcctcactc cttgtaactg gacagccact tccgancgga 240
 gattgttcat gcacatgcgc actgcttccg gctcattgat tggctgtggg caatgaagac 300
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 gggteaactc agttatgccc accgtcctct gtgtg 395

<210> 4594
 <211> 428
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB103-061-Q1-E1-E4

<400> 4594

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 gccttgttca tcttttccct tccggaccac gcatacgcgt cgcataatcat atctcgcata 180
 tcatacatgt ttgcatcat gttgcttggt catttctcgt gattgattgt ggttcggttg 240
 ttgtgttctt gtcttgggta gagccaggag acgagttcgt gaacgaggaa cctgttttagt 300
 acgcttacga ggatcaagct ttcgacaact ctgagaacct tgcaggcaag ataaccaccc 360
 ctcgaaatca cttctatctt tgctttgcca attgttccgc tcaattgcca tgttgcgcta 420
 cctaacac 428

<210> 4595
 <211> 470
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB103-061-Q1-E1-E5

<400> 4595

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ggttaattcc aggggtttca tctgaggcat atcagaaaga caacaaaatg tggaagaagc 120
atgtgaaggc ttatagcaat gtgaacaagt atctacttac tggtaggtac agaaacatca 180
tggacatgaa tgcaggtttt gggggccttg ctgcggcgat cgagtcccca aaatcttggg 240
tgatgaatgt ggtgcccaacc attgcaaaga ttgcaaccct gggggctgtt tatgagcgag 300
gattgattgg catttaccat gactggtgtg aagctttctc tacttatcca aggacctatg 360
atcttatcca cgctagtggc cttttcacct tgtatagcaa taagtgcagc atggaagaca 420
tcctccttga gatggaccgc atcttgaggc ctgaagggtgc tgctataatg 470

<210> 4596

<211> 447

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB103-061-Q1-E1-E6

<400> 4596

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caaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 120
aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaacaaac gaaaaaataa aaaaaaaaaa 180
aaaaaaaaaa ggggccgccc aaaaggttca aacttaactt acccttgaag gcaacttcaa 240
acccttcaa aagtgcctcc aaatttcatt ccaggggcct tctttttaa acttcttaac 300
gggaaaaccc ttgggtttac caaattaaac ccccttgaac aaaatcccct tttcccaact 360
gggcttaaaa ccaaagggc cccaacgttt cccctttcca aaaatttgcc caccctaaag 420
ggcaattgga accccccttt taccggc 447

<210> 4597

<211> 462

<212> DNA

<213> Triticum aestivum

<223> unsure at all n locations

<223> Clone ID: LIB103-061-Q1-E1-E7

<400> 4597

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cgagcgctg aggcaagagc tgaagcatga gcttaaacag gggtagagag aaaagcttgt 120
ggacatcagg gaggagatac tgcggaagcg gagagccggg aagctcccag gagacacggc 180
gtccactctg aaggcgtggg ggcaagccta cgccaaatgg ccgtacccaa ctgaggagga 240
caaggcgctg ctggtgcagg agacgggggt gcagctgaag cagataaaca actgggttcat 300
caaccagcgc aagcggaact ggcacagcaa ccctacctcg tcctcgtcgg acaagagcaa 360
gagaaaaagg aacaatgcag gtgacggcaa cgccgagcag tcctggtagc gcggggcgctg 420
ctggagagcg aagaacgaat gcccataata tgtacatagc gc 462

<210> 4598

<211> 184

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB103-061-Q1-E1-E8

<400> 4598

tgtatgtgc ttcggtatgc tggctcaggg tcatatgtcc ttggtctcgc gcttgaggct 60
gtgctgcag cattctctta gacatgggtg gtttgacaag cttgtgccat gctggacgat 120
accctgcggg tgcgcgcagc cgggtgggctc ccaggatctc cggcgtccac tctgtttgcc 180
tttc 184

<210> 4599

<211> 403

<212> DNA

<213> Triticum aestivum

<223> unsure at all n locations

<223> Clone ID: LIB103-061-Q1-E1-F1

<400> 4599

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tcctggagcg cgcaaggaag atgtcagaga agattgggag gctggagggtg gaaatgcaga 120
aggccaaca ngccctggtg aagtatgagg aggagcagac gacgtcgaaa accgtgggtcc 180

agcgggtccaa agtgcagctg gtggactatc tctacggctg aatgcgggaa agccggaagc 240
 cgcggttctc gccctgccgt tgcataaaag cgaaaaccat tgatgactga ctctgccttc 300
 gttcgcgccc ctcccttttt ttgaaggcgg aatgtgnaaa ggttgggggtt ttcagtttca 360
 gatggagcga ctcatagtt catgtttttc tacgtanata cag 403

<210> 4600
 <211> 426
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB103-061-Q1-E1-F10
 <400> 4600

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 agatgttccg gaggggtgagc gagcagttca ctgccatgtt caggaggaag gctttcttgc 120
 attggtacac tggatgaaggc atggacgaga tggagttcac cgaggcggag agcaacatga 180
 acgacctcgt ctccgagtagc cagcagtagc aggatgccac tgctgacgag gagggcgagt 240
 acgaggatga ggatcaggag cctgaggagg acatgtaagg tgggatgtcc atgtcgtgct 300
 ttgctgggtg ggggttcttg gggcagagtt tgatctgttt ggtgctttgt tataaatctg 360
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<210> 4601
 <211> 399
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 <213> Triticum aestivum
 <223> unsure at all n locations
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 <400> 4601

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 ctttgacatg tccgaatacg gtacgaaggg atctgtgttg cgcctcatcg gagcacctcc 120
 aagctatttt ggttatgacg atggaggaca actgactgaa aaagtcaaga gtcacccgta 180
 cagtgtcacc ctgtttgatg aggtggaaaa ggcgcacgag gaggtgtaaa atgttttctt 240

tcaacttctc gatgatgggt tgttgaccga tggcaaaggc cgaacagtag atttcanaaa 300
 caccatcatc attatgacct caaatcttgg gtcaaagcac cttgcagcag gaatgggttg 360
 gaagaacaca ntgcaagaaa cacacaagct tgtcatgaa 399

<210> 4602
 <211> 394
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB103-061-Q1-E1-F6
 <400> 4602

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 tagtttggtt tgatttagtt tagcaactaa atcatttaaa taaattcagt agaattttat 180
 gtggcttgct aaaatatata taaagccact cacaaacttc cagaattatt ggagtcatat 240
 ttaatatata ttaaatataa atccaaagca aatagttatt ggattaattc aaatggccaa 300
 aataattatc tctgtgactc caaaaatatt ggtttgaatt ttacctctca ccaatatttc 360
 catggaataa caggaacatt ttcttggaaca catt 394

<210> 4603
 <211> 402
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB103-061-Q1-E1-F7
 <400> 4603

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 taaatgaatt gattaaggaa aatatggaaa tgaattaaat aaaaaaagta agagatcaga 180
 tgttgtaaaa ataaataaaa aaacaaatga aaagggggcg atcctaaggg ttcaagggtt 240
 atttcagctt gaaggcaagg taatacccct tcaaaattgc cgctttaatt caattcaggg 300
 gcgttggttt taaagggact ggacgggaaa aaccttgggt tatccaatct aaatgccatt 360
 gaagaaaatc cccatttcgc aattgggggt aatatgtaaa ag 402

<210> 4604
 <211> 478
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB103-061-Q1-E1-F8

<400> 4604

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ctaacgcagg atcgcatcgc attttctgga aggacttcga agtggagttc tggtttgcct  120
ttcctgatga tccttttagc cttatgtacc ttgagaccaa caactcttgg ccacgaaaac  180
ccatgatatt tgtacacatt tgaactatth gctctccata atgttcgtht tgcctcacct  240
ggaacctgca tagattgagt agaactttgg cattatgtta aaaattggag atcttaaath  300
ttttctaath ttgttaccaa cgttcgcatg atagagcata taaattaggt ccgtagctgt  360
aaatgtatct aaaattctag acaagcaaac acatcattht ttgttttttc tgatgttaaa  420
ccatggcatt ccttcttatg atggtgatat atgtaccttg ggcathgatt ccgcaacc   478
  
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<210> 4605
 <211> 432
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB103-061-Q1-E1-G11

<400> 4605

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tggttgcttg acaagctgaa ggccgagcgt gagaggggta tcaccattga tattgccctg  180
tggaagtctg agaccaccaa gtactactgc accgtcattg atgctcctgg tcaccgtgac  240
ttcatcaaga acatgattac tggtagctcc caggctgact gtgctgtgct catcattgac  300
tccaccactg gtggttttga ggctggatgc tccaaggatg gccagaccgc tgagcatgcc  360
ctccttgctt tcaactcttg agtgaagcag atgatctgct gctgtaacaa gatggacgcc  420
accactccca ag                                     432
  
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<210> 4606

<211> 424
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB103-061-Q1-E1-G12

<400> 4606

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tatctatata cgggtgcggtg gacgacctac tattccctct tgataagttt atctatctgg 180
tggtgttgga ccttgaagggt tggcagtgc tcaaggacga agacatggtg ttgatatgca 240
gcagcaggat gctccttctc cgttatctga gcgtgaagaa tacaagagtc cgcaagctcc 300
cggccaagat caaggagctg cgcagtctgg aaacggttga catgagccac acagaggtca 360
gtgagctccc atcagaagcg tgcgagttgt cacggttga gacgctggac ctaaggagca 420
cact 424
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<210> 4607
 <211> 438
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB103-061-Q1-E1-G2

<400> 4607

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tctgtcggta cggcgggtacc atacaccac catatacctt ccttaaaaca gccaccatac 180
ctacctatta tggcatttcc atagccattc ctaaataat ttccatgcaa cttgccactg 240
ttccgtttat tatgacacgc ttcattcattg tcatattgct ttgcatgac atgtagttga 300
catcgtatatt gtggcaaagc cacctttcat aattctttca taaatgtcac tcttgattca 360
ttgcacatcc cggtagaccg ccggaggcat tgacatggag tcatattttg ttctaagtaa 420
tgagttgtaa ttttttga 438
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<210> 4608
 <211> 404
 <212> DNA

<213> *Triticum aestivum*

<223> Clone ID: LIB103-061-Q1-E1-G3

<400> 4608

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ttgcctgccc gcacaccggg gtcgctctcg cggcgctctt caagcttcgg gaaaaggga 180

caatcggggc aaacgaccgc acggtggctg tcagcacggc gcacggcctc aagttctccc 240

agtccaagat cgactaccat gatcagaaga ttgaggacat ggcttgcaat tacgccaacc 300

caccggtcag cgtgaaggcc gacttcggcg ccgtcatgga cgtcctcaag aagaggctca 360

agggtaagct ttgagcatgc cctcctgctg ctgctgctga accc 404

<210> 4609

<211> 318

<212> DNA

<213> *Triticum aestivum*

<223> unsure at all n locations

<223> Clone ID: LIB103-061-Q1-E1-G4

<400> 4609

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ctcatcaggt tcaacttccc tccaattcac ttcttttaggg agaaaccct tccctaaaaa 120

ggatcaatcc taagcagcaa atatctggcc tttggatcgg tgataaaagg tgtaccaaac 180

agtccctttg ggttacccta taaagacaca tttctcctat ttgggttcga gcttatcagg 240

ttgaagcttt ttcacatagg catcgcaacc ccanacttta agaaacgaca actttggttt 300

cttgcaaaac catagttc 318

<210> 4610

<211> 482

<212> DNA

<213> *Triticum aestivum*

<223> Clone ID: LIB103-061-Q1-E1-G8

<400> 4610

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aaagcaagaa ggttcggcag ttcaagcacc tctgcctcac agatgccacc tggaaggact 120
 ctgcctcgga gcggttcagc acgcaacatg tgatgctgat atgaagcatt aaaaagacct 180
 tggagcatcc cttgtgtagt tagttgaatc atggcatcca gggaccctct gctgacttgt 240
 gtgtagagaa aacaagaaga cattacatct tggttgcctg ccagaaagtg tcgagcctga 300
 gcctgaccct gatcgatcgt gcctactaca tctcgtggtc gcggaaatca atcaatcaat 360
 cagcgactcg agtcgggtga agttagtgtc gttgatgaga tttggtggtg tttttattca 420
 ttttctatcg tggaatcgaa acactttggt gtataggtat ggtgtggcct tgcaatattt 480
 tt 482

<210> 4611
 <211> 404
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB103-061-Q1-E1-H12
 <400> 4611

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 taccgagtaa actcaaagat tgggcccgcga gcgtgtcggc agtccaggac gcggacatca 180
 gacaagaatt ctttcgcatc cagtcggagt ttgcggaaat catccatcaa gatgtccttc 240
 gtacctcggg gcagttctgc ctcagaaatc aaccgtccaa cagtgcacatc gacacaatgc 300
 taaaaatgca gcctgacaac gcccgttatt tcatgactcc cacgatagac agcagcttca 360
 tccacgctcc ggtcccttga gtcgagtcga aagcagtga cctg 404

<210> 4612
 <211> 376
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB103-061-Q1-E1-H2
 <400> 4612

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 cgatgttaga ctatgggcta tctttttcca taagccgtct tgcttattca ttggggcttc 120

taaactagtt atgaaatagc taatttagaa gtccctcaaca aatcctaaag ggcaacttat 180
 attttaagcc ggaaagaggc atcttatttt gtaagccact caaaagaact agccctacaa 240
 ataagataca cacatttaca cacacacata tgctaaatgt cacttgctctg aagatgaatt 300
 tggcactact tgattatgcg tatagcatcg acaacgcgac ccgtcatggg gtcccatcgg 360
 agatgtgcct ggaacg 376

<210> 4613
 <211> 479
 <212> DNA
 <213> Triticum aestivum

<223> unsure at all n locations
 <223> Clone ID: LIB103-061-Q1-E1-H4

<400> 4613

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 tgatccctag tatgcactat attctgagat tgatgttgct atgactttgc tatgcttaat 120
 gcttgtcaca agggcccgag tgccatgatt tcaattctga accaataagg tttccaggaa 180
 aaaaggtgag tccttgatcc aaccttgag ttcaaatac accaacaatg tgtaagaatc 240
 cggaaccccc aaattgacaa taatcggaac aattcccggg gatgacaata gtttgaggag 300
 ttcattgtatt cactaggtgt taatgctttg gtccgggtact ctattaaaag gaggcnctaa 360
 tatcccttag tttccgttan ggacccgctg ccacgggagg gtaggacaaa gatgtcatcc 420
 aagttttcttt tcataggcac gtatgactat attcgaaata catgcctaca ttacattga 479

<210> 4614
 <211> 436
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB103-061-Q1-E1-H8

<400> 4614

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 gttttcaagt tttgagtaaa gtttttatgg actatggaat aaggagtcgc aagagcctag 120
 gcttggggat gcccaaggaa cccaagata ttcaaggata gccaaaagcc taagcttggg 180

gatgccccgg gaaggcatcc cctctttcgt ctttgttcat tggtaacttt acttggagct 240
atatttttat ttgccacatc atatgtgttt tgcttggagc gtcgtgtact atattagtat 300
ttgattttta gtttaccaca atcacccttg ttgtacacac cttttgggag aagcctatTT 360
tattaggatt tgctagaata ctctatgtgc ttcacttata tcttttgagc ttgatagttt 420
ttgctctagt gcttca 436

<210> 4615
<211> 318
<212> DNA
<213> Triticum aestivum
<223> Clone ID: LIB103-062-Q1-E1-A1
<400> 4615

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catataatTT gaagaagtca ttttatcttc tctcgtgaaa atcattgagt cgcataaagt 120
ttcagaattg gaatatttcc aaatgaaatt caattattct cagaaccctt tgtcatttaa 180
ataaatggaa gaagtcaggt catcttctct cgggggtttt gtgttgaaaa gaatttgaat 240
tcacggggat cagaaagcca ttatgaaagt ttgggaaagt cgttttattc cctctcatTT 300
acctttcaaa aggttttg 318

<210> 4616
<211> 423
<212> DNA
<213> Triticum aestivum
<223> Clone ID: LIB103-062-Q1-E1-A10
<400> 4616

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tggtatcctg ctcaccaagt ttgacgctat cgacgacaag gtcggagccg cgctgtccat 180
ggtttacata tccggatctc cggtcattgtt cgtcgggtgc ggccagtcct aactgacct 240
gaagaagctg aacgtgaaat ccacgtgaa gaccctcctg aagtaaaatg gtagtgctag 300
tacatgtcgt gctccgatat gtgcgcgatt caaggagtct ctgttatatc tccgaaaatc 360

ccccgtgaca tcgtcgtttt ctcgtttggg ttggcgtgaa actgtcgccc ctagcaaact 420
 ttt 423

<210> 4617
 <211> 413
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB103-062-Q1-E1-A11
 <400> 4617

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 tatatccatg ttccatgtat actcccccta tatataaagt cattttcact ctgtgggata 180
 ctagatgttg cagtaattag ataagtgaag taaagtaaaa cctcatgtgc acttcatctt 240
 agtctaatac atgtgggcaa tctcaagatc atgggtggaac atgggtgcaat gaaagtatgc 300
 gccatgaatg gacagaaacg gtacagcaac taggggttctc ggaacatgca aagcagccga 360
 aaacggaaag ccagccggcc tggagctggg gggtgcatcg attccaaatc tcc 413

<210> 4618
 <211> 412
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB103-062-Q1-E1-A12
 <400> 4618

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 atgagtatcc tatgccaata gccgatatgc ttattaatga tgcttctgga cataagggtta 180
 ttagctttct agatggtaat gccggataca ctcaaatttt tatggccgaa caggacatgt 240
 acaagacagc tttttgatgc cctgatttcc ttgggtttatt cgagtggaca atgatgacat 300
 tcagattaaa aaatgctggc gccacatatc acagcgctat gaatttgatt tttcatgatt 360
 tactcgggtg cataacttga gtctatattg atgatactga tgtcaaactg ga 412

<210> 4619

<211> 438
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: LIB103-062-Q1-E1-A2

 <400> 4619

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 tgggtgtgttt gacttggcgt agatctcccc ggcaacggcg ccagaaattc ttcctactac 180
 ttcttgagct tgcgttggtt tttcccttga agaggaaagg gtgatgcatc acagtagaga 240
 taggtatttc cctcgattag agaaccaagg tatcaatcca gtaggagaag aacgcacaaa 300
 taacctata cctgcgcaaa caattaaaca cctgcgccc aacgcaataa aaggggtgtc 360
 aatcccttca cggtcacttg caaagatgag atctgataga gatagataaa ttaaaccaca 420
 acaaagatca attttttt 438

<210> 4620
 <211> 445
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: LIB103-062-Q1-E1-A4

 <400> 4620

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 aatagtaggg gcggtgaggc ctccgcggca gcacagccgg ccacgggagg caggagcatg 180
 tggcacgacc ggcgctgctt tgggcacctg gagcgagaag accagaggtt gaagaagcac 240
 tacggctggt ggatagacat cgtacggtca ttggagctag aatcatgcat attgactaat 300
 ttgacaaagc cctccgtccc gtcaacttat taggcccaca attcatcctg ccactatact 360
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 gcgtgcgaag atatagctgg tgggt 445

<210> 4621
 <211> 470
 <212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB103-062-Q1-E1-A5

<400> 4621

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gtgtgctcaa atctgctgtc ctgcaacaca tcagtgttgt gaagcctgct atgctgcctg 180
ctgtgttccc gcgcttcatg tcagtatcac ctgctcaaata agaggagagt ggatttgaga 240
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gagcttttgt ggttggttaa cccggggaag ataaatcaat tgctggcatc gtcacagaga 420
gagattatct ccggaaaata atagtgcagg gtcgactctc caagtcaacc 470

<210> 4622

<211> 462

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB103-062-Q1-E1-A7

<400> 4622

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gaccogaagg tctgaagtaa actactcaca cttcattgga ggggctatgg tgatgatgta 120
gaagccctcc atggtggatg cccctccgg tggacctccg gaacaggccc caagatggga 180
tctcgtggat acagaaagtt gcagcggtag aattagggtt ttggctcctg ttctgatcgt 240
tcggggatac gtaggtatat ataggaggaa ggagtacgtc ggtggagctc tgagggcccc 300
acgaggtagg gggacgcgcc ctccaccctc gtgaccgctc ctggcgcttc ttggagtagg 360
gtccaagtct cctgggtcac gttcggttgg aaaatcacga tcccgaagg ttcattccgt 420
ttggactccg tttgatattc tgtttcttcg aaatactaaa aa 462

<210> 4623

<211> 475

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB103-062-Q1-E1-A8

<400> 4623

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tggtggacag caccaacaac ctcaaggcgc cccatgggat gggcaccttc acggagcagt 180
ccaactgcta cgacgtgcag aacggcaaca acgccgactg gggctcctac ttctactacg 240
gcggccccgg cgggagcgcc aactaccagt gatgacaaga acaccacat gactgacgag 300
tgagtgaagt gtagtgtggt gcaccatctg cattgttagg cctagatgat gataggtgtc 360
atgtgaatgg gtctgtgtgt tgtctcctga ttttttctt ttttgatttt ctcccggtgtg 420
tcaatcaagc cttctgaaga gaagcatggc atgtggtgtg gtctgtggtg gtgca 475

<210> 4624

<211> 417

<212> DNA

<213> Triticum aestivum

<223> unsure at all n locations

<223> Clone ID: LIB103-062-Q1-E1-A9

<400> 4624

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gtttatttga tccatggtgt angaagcgcc ggtcaacacg gtggagctgc gccgtgggag 180
ggtgctggtt tggagatccg cgtgactatc cgagcgctag tccacctcag aatggaagca 240
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attacgtttt tcatgaccat gaaaagataa acgtgaaggt cgggcatacg ctataacttg 360
atgatgcata taaaatatga tgtctaagaa agattcggta cacatgtttc tgaatgt 417

<210> 4625

<211> 444

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB103-062-Q1-E1-B12

<400> 4625

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 cgagcaccat cttgcagtct gtcctcatgc gcggcccgtc aagcagaaag tcaggaaaca 120
 ggcaattggac cgccaaaagt tcatcgaga agaatcaag aaattggaag cagcaggcct 180
 tgtcagagga gtgtccatc ctacgtggtt ggccaaccct gtagtcgtgc gcaaggcaaa 240
 cgggaaatgg aggctttgta tcgactttac cgatgtcaat aaagcttgtc ccaaagaccc 300
 acttcccttg ccgcgattg accagattgt tgactccacg gccggatgtg acttgctttc 360
 atttcttgat gcatactcag gataccatta gatcttcacg gcagaagagg atgaggagaa 420
 gacgcattca atcacccatg tgtc 444

<210> 4626
 <211> 334
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB103-062-Q1-E1-B3
 <400> 4626

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 agttgttgta tgttgtgtag cataacgatg ctttctgcct gtggaattaa accataaaga 180
 ttgccaaaaa aaaaaaatga caaaaaaaaaa aatcaatggg cacataaaca tgggtgtcac 240
 gtgttgaaat atgttctgtg acgcggaaaa gctaagtgtg ctgtcacgaa aaaattgggc 300
 ccaccaagag gttcaagcct aacttggaact ggaa 334

<210> 4627
 <211> 118
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB103-062-Q1-E1-B4
 <400> 4627

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 cgttgtgtag caaaacgatg ctttctgcct ggggcagtta aacaataaga ttgccaac 118

<210> 4628
 <211> 476
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: LIB103-062-Q1-E1-B5

 <400> 4628

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 atggagcttc gaccgatgac gatggtgatg gagtttttgc tgcaaccgcc gtcaagtttt 120
 gctacgactg ggcgagaaat ttgttacatc cattcttttt ttacggcaaa gaccggtggc 180
 cgctcgttcat ggcgaaaccc gtgcgacgag cgtcaatggc gagggatggt aggcggtgca 240
 ctgggaccat agcgcgtcca ccgcgggggt tggaacagat cggcgggggt ggattgaaac 300
 cagcgatgtc ggagctgcaa ccgaaattaa tggtgaccgg ggaagaggtc tttggcaaac 360
 atcggggaag agcagcgcag caaggcggcg agatgcgagc agccggcggt cgttcgcctc 420
 gccggagccg cggacatgga cggaatcatg cggataagga ggaagggcc tctttt 476

<210> 4629
 <211> 501
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: LIB103-062-Q1-E1-B6

 <400> 4629

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 ccaaaagcct aagctcgggg atgccccgga aggcattccc tctttcgtct tcgtccatcg 180
 gtaactttac ttgaggctat atttttattc accacatgat atgtgttttg cttggagcgt 240
 cttgtatgat atgagtcttt aatttttagt ttaccacaat catccttgct gtacacacct 300
 tttgggacag actcacatga atcggaattt attagaatac tctatgtgct tcacttatat 360
 cttttgagct agacaatttt gctctagtgc ttcatttata tctttttaga gcacggcggt 420
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 tttagaacag catggtatatt g 501

<210> 4630
 <211> 485
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB103-062-Q1-E1-B8

<400> 4630

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 gtaaaaagtt ggtgctcatg aacttccaga cctcccatga gattatcctt cctccgttgg 180
 attatataga gtattaccat cgcgggtccaa gtcactctaga ttactacgtc agttggacgg 240
 accttgTTTT gcagaagatt gtaatctgcc aagtaaccac acgatatgcy aattacatag 300
 acttcaagct aattgccttg ttcaaccgcy gactcgccta tctttatacc ggtgcctttt 360
 ttagccggag acaactcggc tcacaatgga tcatcgtcaa ggccgataca cacttctgtg 420
 atgctattga acacaatggc atcatctacg cgatcgacaa agcagatggc accatgtatt 480
 gctgg 485

<210> 4631
 <211> 430
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB103-062-Q1-E1-B9

<400> 4631

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 gcagtcagcc agaggaagac gaaggcgttt cgatcagtcg gatccctgt tcttttcac 120
 cagacaagtc gggagggggt ttcttgctcag ctagtcgggt tctggcttgt cagtagctgc 180
 ggtgcgtgtc gtgtggatcg agttagttgt actaccagaa attcggaatg acatggaacc 240
 catgcgtatc atagcagatg gtacgggctg cctgcccttt tcctgggtgt tcggttggg 300
 ttggttcatg gtggagtgc agtgtgacaa tgtatgcctg gcgatgccac tacaggcgct 360
 gtatctgtag gcatattccg agctggcttt atccctgtgg atctgttttg tccgcttatt 420
 ttgacactgc 430

<210> 4632
 <211> 458
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB103-062-Q1-E1-C1

<400> 4632

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 atgaagaatc actccaaagt tactatctag cggagaacat aagaataaat tgtttgtagg 120
 gtacgaaacc acctcacaac tattctttct gttcgatcta ttcaagagtt catattaaaa 180
 taacacaaaag ctattttttc cgttcgatct atcctagagt tcgtactaag ataccacgaa 240
 agaaaattca tattcataat actcaatcca acacaaagaa ctttaagag ttccccaaga 300
 tttctaccgg ataaacaaag acaagaacgt gcatcaaccc ctatgcatag attaccccaa 360
 tgtcacctcg ggaatccacg agttgagtgt caaacatat atcaagtga tccatacgat 420
 gccccattgt caacacgagt attcaattgc aagacatg 458

<210> 4633
 <211> 429
 <212> DNA
 <213> Triticum aestivum

<223> unsure at all n locations
 <223> Clone ID: LIB103-062-Q1-E1-C12

<400> 4633

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 tacagttccc atccagaggt ggagtcgtgg acttcccccg acctcagcgc aggaggtctc 120
 ggccagtctg tcaagccttc cegtcttcga tcgtacgtca tgcgtttga ttcagacacg 180
 ttacaaactt acgcgacaat ccggtcgaag gtggcgtttg gcatcatcga gaagcacacg 240
 gaggcgctat tcgggaagcc ggagatcgtg atcaccgccg aaggaacggt cgattcttcc 300
 aaggatgagt atgtcaggat aagcttctcc gggttgagaa ggctcatctt anaggctgtc 360
 accttcggat ccttctctg ggacgtcgag agctatgtgg actccaggta caatttttgt 420
 cacaactaa 429

<210> 4634

<211> 436
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB103-062-Q1-E1-C2
 <400> 4634

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 acttcaccgg tacatccaaa ccccgatgata tgatatgctc tatcacacat aaacctcctt 180
 atatttttct caaaacagcc accataccta cctattatgg catttccata gccattccga 240
 gatatatgac catgcaactt tccaccgttc catttatcat catgacacgc attactttta 300
 tcatattgcc attgcatgat catgcagttg acgtcgtatt tgtggcaagg ccactttgca 360
 taatttttca tacatgtcac tcttgattca ttgcccattc cgttacatcg tcggaggcat 420
 tcatatagag tcatat 436

<210> 4635
 <211> 342
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB103-062-Q1-E1-C3
 <400> 4635

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 gcagaggaga ggaagcggag gcgacgatgt cggcgatgac tgcggcgggtg cccttctggc 120
 gcgcggcggg gatgacctac atcggctact ccaacgtctg cgcggcgttg gtgcggagct 180
 gcctcaagga gcccttcagg accgaggtct cctccgcga gaaggtccac ttctccctct 240
 ccaagtggac cgacgagaag cagcagaagc cactgtgac cacagatgat gaatgaagat 300
 caggtgccat ggtgatgttt tgagaaattg ttggtttatg gt 342

<210> 4636
 <211> 364
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB103-062-Q1-E1-C4

<400> 4636
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 tctatgtgct tcacttatat cttttgagct aggtagttgc tctagtgtt cacttatatc 180
 ttttttagagc acggcgggtgc ttttattttg aataaattga tgaaccctca tgcttcacta 240
 atattatttt gatagtctcg aaaatagtat ggcaattttc ttagcttatg aatttagtcc 300
 taatatgatg ggtatttaag aggggtataa taaaaacttt catgaagatc attgaatata 360
 tgag 364

<210> 4637
 <211> 416
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB103-062-Q1-E1-C6
 <400> 4637

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 aattcctttt tcgacgctct ggagaataat aactactggt atatcattct atatcaaagc 180
 .cggcttggtga aataaatgat ccgccgtctt gccttcaaaa taaaaaaaaa aaacataaaa 240
 aatagaatct ggaccagtag cttgaagcat ccattttctg gaatacgaat taattccgct 300
 tcatgggggt ctactgatt catgtcacat ggagttcgta tataatggtg gatgttgagt 360
 taacgttcta ttagtgcata ctaatgcct tgcaggagat accccttttg caaaag 416

<210> 4638
 <211> 464
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB103-062-Q1-E1-C8
 <400> 4638

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 gatgttcaaa tcatgtcaaa taaaaatgat ggttcagatg ataataacta ttattgttgt 120

tgttgtaata aacttgccat tttgtaacag aagcatattg ttatgtacag gttgccttgg 180
 tggtagagagc cgcaaaggaa gtttgagatg tacagggtgaa gttgatgatt aagagggcct 240
 gtgcaatggt gtatacttgt tgatgtaatc tgggtgtagtt gttattgagg tcagggtgaat 300
 tgatggttga tgtgttcttt gacacatttt aaaaggcctt tactcaatga aacaattgaa 360
 tagaaatttg tgaaatggaa tagaatatgg tctattcaat ggaaactgtg aaagcatggt 420
 tgattatctg taatgggtcg tgccacaact gtttggatga atat 464

<210> 4639
 <211> 408
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB103-062-Q1-E1-D1

<400> 4639

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 ctcatccatg agatcagtag cacgcttgac aggcacatca tctcaagac tactctggtt 120
 gagctcgga ggacgctggg tctggaggaa tgtgctttct ggatgccgtc aaggaccggt 180
 tcgagccttg agctaattca taccatgcgc cacaacatcc ccacgggctc ttctgtggag 240
 attaatctcc ctgttgtaaa ccaagtctta agtaccaacc gtgcgatcat agtgccacat 300
 acttctcctt tggcgaggat ccacctggt caaggcggc atgtctcacc cgaggtggct 360
 gctgtgagat tctctgctg catctttcaa actttcatcc cgaagctt 408

<210> 4640
 <211> 419
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB103-062-Q1-E1-D12

<400> 4640

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 ccacacaaca gatatgctgc tgtcagcagt gctctctaaa tagacactgc aattatctta 120
 tacatcatta ctgttgctcag caatgctctc taaatagaca ctgcaattat catgtacatc 180
 attgctgctg caataaacca ctaagaatta ttcaatatct agcctagcgc cttcgttatc 240

atcaaccgag ggttgaggcg gagttacaaa atctgaatga gaaaccaagg gattgtccaa 300
 gtcagcgaca tctttgttat cttcagagct gttagaagca gctgagatgg cgtcaccgca 360
 ttctgaatgt gttctgtcca catatgcttc gggtaaggag ctctcggcca catcagcat 419

<210> 4641
 <211> 414
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB103-062-Q1-E1-D2
 <400> 4641

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 ggaccttgta ggccttcgat cgccagacta tgcagcgggc ctcatTTTtgg tcttcgggaa 120
 gttcctgcct aagtaagtag gctaggaaag gttctgtcaa cgcggcgatt actgcaatta 180
 tgacgtgggc ggaggatggt atgtcgtctg ccgaatcacc ggttggtgcg gttttctccg 240
 gtttgctgct accgggctcc tcttcccata gtacggatgg cttgaagagc cgttccagga 300
 agatatttgg agggacagca tcacgtttcg caccgatgcg tgccaggacg tcggccgctt 360
 ggttattatc tcgggctatg tgatggaatt cgagtccttc aaaccgagct gaca 414

<210> 4642
 <211> 435
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB103-062-Q1-E1-D3
 <400> 4642

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 aatgtgaagt tatgaaagac accactgttg gcataaaatc ctatgcagggt attgctgcgg 120
 agggtatcgg aaacggagcg ctcttgatgg caatgaatta ccatgtcaat acatcaaata 180
 ccgctttgtg ggattacatg ccaatggttt tcaacatctg accttctccg aaatttttgc 240
 accgtacttc cgccatgtta cgccgcgttt catcttttgc ttgttatgat agtatttcaa 300
 cacttttttg tgggaaaagc tgataatggt tagatgttgg gtatacagaa gcatagaagg 360
 aaactaacia cgacattttc ggcagcacgg tcatttcttg caaattgccc tgccgtttgg 420

tgcaactgtgt tatta

435

<210> 4643

<211> 467

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB103-062-Q1-E1-D4

<400> 4643

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tccaactagt actggttggtc ataacacttc tattaagatg cttaaagaag ttatTTTTTcc 180

gatgtttgga gtccctagat atttaatgac tgatgggtggg tcacatttta ttcattggtgc 240

TTTTcgtaaa atgcttgcta agtatgatgt taaccatata attgcatctc catatcatcc 300

tcaatctagt cgtcaagtaa aattgtttat tatagagatt aaattgatat tgcaccagac 360

tgtaataaga tctatacaga attgggtccac gaaacttgat gatgcactat gggcatttat 420

aactgcttat taaaatccta tgtgtatgtc tccgtgtaaa ctggttt 467

<210> 4644

<211> 367

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB103-062-Q1-E1-D6

<400> 4644

gtttatcctt tgcgctatgg cttcacattt atctttttaga gcacggtggg ggttctatct 60

ttattgatgt ttctaatttc tcatacttca catcttccaa tttgctcgtc tttggactca 120

tcgggtatat ttactttgca tgcacggtt taaagcatgt cgcattcattg cgtcacttct 180

tcttgtgttg caatagcctg gtcgacctct atcaggtgtg cacattgagt actttccct 240

atttcccttc gattgtcttc agcttgggtt ctagattatc attggcggtc gatcacctct 300

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tggtttt 367

<210> 4645

<400> 4647

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ataattatac gagtaactat atatccaaat cacacaaaca tcaatttggg aatgtaaaac 120
attcatgaac aagaggctca ccacaagggt gtgccggcga tggaacgggt tgggcgattg 180
actatgggta cgacggagat ttagaaggca ctaagtaaac cacacctaca tatgcaaact 240
aagtgttatt tttgacctca aattgcgtac aaatcaaata ctagcacata tatttcctcc 300
caaattacta aactcataaa ttaatcacta tacanagcat tgcaagagct aatctagcaa 360
tgagagatga aaggacaaag ttgctaacct ttgtgatcaa ttgaatggat gggggcctca 420
natcttgaca aatttt 436

<210> 4648

<211> 471

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB103-062-Q1-E1-E3

<400> 4648

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tactcttatt attcgcttgg ctatatggga tggtaaactt gagtgactta cctatagtag 180
acaaatgacg atcaaaacct tgtttaagcc ttagaatggg ataggtattt tttcttcctt 240
gtacaaggaa gtttttgcca accgtaggtt atacggtgag gatcaacca gaccatttcc 300
ctgcaggaga aaccataaat ggttgaccac catgagatat caatagttgt ttagtattgg 360
gccaaaaccc atcagctaag aggacccatt ctcaaaaaaa ccttacctag atgaaggaca 420
gacgaattgt ggtaaagggt atgccactac cggaaaaccc cggataagga a 471

<210> 4649

<211> 321

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB103-062-Q1-E1-E4

<400> 4649

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gggttgacca atggcgattc agaccttggg taagccttaa aatgggccaa gtaatttttc 180
ctccttgtag caggaagttt ttgccaaatc gtccgttaaa cgggtaggat taaccagac 240
ccatttcttg catggtaaac cataaatggt tcgacacatc gggctatctt tttttgttta 300
gtactggggc cagacccatc a 321

<210> 4650
<211> 437
<212> DNA
<213> Triticum aestivum
<223> Clone ID: LIB103-062-Q1-E1-E5
<400> 4650

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tcaacattta ctggaaaaat attcatgctc ataacatgct gttcttaaga ttgactacat 180
taagagccct tttttatttg actccaactt gatatgatgt tgtaggccgc ctgggtgtccc 240
tacccttact aatcccagaa actttcaaag aaaagcggcc tggcagttgc aggtggttcc 300
tggtctgatg agacgatggc gaatgattga tgatcgttcg cacgtaccgg acgtgttggt 360
tcgcggaata caatcacaat cactgcaagg tctttgagca agattccagc ttctctgggc 420
cttcaagaat ttttgac 437

<210> 4651
<211> 381
<212> DNA
<213> Triticum aestivum
<223> Clone ID: LIB103-062-Q1-E1-E6
<400> 4651

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cagtatgta ctttcctatg atatcatgat ggcttgctta tattaatgtc aacatttact 120
ggaaaaatat tcatgctcat aacatgctgt tcttaagatt gactacatta agagcccttt 180

tttatttgac tccaacttga tatgatgttg taggcgcgct ggtgtcccta cccttactaa 240
 tcccagaaac tttcacagaa aagcggcctg gcagttgcag gtgggttcctg gctcgaatgac 300
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 atcacaatca ctgcaaggtc t 381

<210> 4652
 <211> 433
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB103-062-Q1-E1-E9
 <400> 4652

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 tctagtaaca agaatatgaa atcgtaaata gcgaaaaatt cttgtcttgc gcggtctaag 180
 tctaaggaaa taaaaaaaaat tcgcttatac aatttcatct acatcgaatt tatatatcag 240
 aatagcggat agaggcatca ttaaaggagt cagggtctact tactttatgc ttctttccaa 300
 ttttatggtg gatttgataa gaaccctttt tgctttcttg ataaataatc gacaaaaaaaa 360
 gcgttttttt tatataacct gcttggttta ttataattat aacaagtcct atatggaaat 420
 gcccgcataa gag 433

<210> 4653
 <211> 340
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB103-062-Q1-E1-F1
 <400> 4653

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 tagtgtgcat ggcacatacc aagggcaatg catttggttt tcttattgct aaagctggag 120
 ctctccagg aggaggagaa aacaccaggc cactgatcat aaccacaaat ggtgcaattg 180
 gcgtcttctc agacagcacg gaccttgctt accaacaagc ggtgaaagat ggcgcggata 240
 taataaattg ctgggtccgg atgtcgaaag acgggggtgc cttctgcctg ggctctacag 300

atctcaacag cagcacgaca agcagccaca acttcttggg 340

<210> 4654
<211> 366
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB103-062-Q1-E1-F10

<400> 4654

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atgatgtcca tattcctaaa ctgaaattga aaattcaacc atttgagggg aaaaagggtcc 120
cggaataaaa tctaacttgg aagttagaaa cggaataaaa atttaaatgt ttacaatatc 180
ctgaggagag acgagttgct actgccgttt gtgctttcac tagttttgca tgtgtatggg 240
gggtctgaaca ttgtagatta taccctattc caactacttg ggctgctttg aaaactgcta 300
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taagac 366

<210> 4655
<211> 442
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB103-062-Q1-E1-F11

<400> 4655

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tgagcaccaa tgacatcatt ctgcaagacc aaactcccta tgttttgaag ctacacaaca 180
gaagtccaga agacagggct tgttttgaga taactggcca agcaccaagt tccctctggct 240
cagattctgc tggtttccct acttggtcca aggtttctcc aacagctggg ataactctgcc 300
ctggacagac ggtagaggtc actttgcagc atggagtcct gcgtggaaca tcgtggaata 360
atttgtctgg ggctaaccat gaaaatgcag cacagttatc ggtgaaaata actggggcgt 420
gttctaccgt tgccaaatgt ta 442

<210> 4656
 <211> 247
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: LIB103-062-Q1-E1-F12

 <400> 4656

 gtaccgatct atcactggcc gaccggcata tggaagcagt tgaattgggg gaaccttaag 60
 caaaccggga ttctggtgtg ggttaccggt aggaccgact ggaacaaaga agtggcccaa 120
 gccaaagaaa gattgaacaa atgggaaagg aacaagatgc ctccaataac aaggcaagaa 180
 tgaacaatg gattctggaa aagattaacc ggaatgttgg ccgttcccaa attgattccc 240
 ccaaaat 247

<210> 4657
 <211> 370
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: LIB103-062-Q1-E1-F2

 <400> 4657

 ccgggctggc catgtcacgc acgttcggcg actactgct caaggactac ggcgatct 60
 cggcgccgga ggtgacgcag aggaggatca cctcccgga ccagttcgtc atcttgcca 120
 ccgacggggt ttgggacgtg gtctccaacg aagaggcggg gcagatcgtg gctgacacgc 180
 cggagaggga gaaggcggcg aagcggctcg tccagtgcgc cgtccgcgcc tggaggcgca 240
 agcggcgggg ctacgcgctc gatgattgct cggcgatctg cctcttctc caccgcgcgc 300
 catcgtagac gggcgcgcat tgccatgtgg accaggaaga gagagagaga ccagaatggc 360
 ggatcactgc 370

<210> 4658
 <211> 174
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: LIB103-062-Q1-E1-F3

 <400> 4658

 ggtcgaccgg acgaagaaga tgaggcagat gaagaagagg aagacgaaga agaggaagac 60

gaagaacaag aggaagaaga agacgaagag gtagaccacg acgaggaaga tgacgacgaa 120
gaagatgacg acgaagatta ggaagatgaa gacgaagaag acgaagattg aaga 174

<210> 4659
<211> 388
<212> DNA
<213> Triticum aestivum

<223> unsure at all n locations
<223> Clone ID: LIB103-062-Q1-E1-F4

<400> 4659

ttgtggtgag ttgatcttag cctgtaaag cattttcaga acctctgatg gatgtgatgc 60
ggcttcataa tgacctgaca gtaaaccaca gtttcagttc ctcggttttc tttctttctt 120
ctgtctttct ttcttgaaac ttaaataatgt atttctttct ttctttcttg aaacataaat 180
atgtacatat ttctttcttt ctaaagtgcg aaggaattat ttctaacctg catcatgtgc 240
attcaatctt cggtctgtct ggctgtgcat tgccattgta aattatcgcc atttatactg 300
ngagctcata gcttcccaca tgcggtgaac cgatgaaatc catccagcaa atgggtctggt 360
tttcagaaga actcgtttca agatttgt 388

<210> 4660
<211> 398
<212> DNA
<213> Triticum aestivum

<223> unsure at all n locations
<223> Clone ID: LIB103-062-Q1-E1-F7

<400> 4660

cggtcatgta gtccgggtcg acgggggttg cgcgcacagg aagccacttc tggggattcg 60
aagggcaggg tgtcatccct gatatagtca ctatggcaaa gggcataggg aacggaatac 120
cgataggagc ggtcgttacc acacctgaga ttgctaaggt gttaaccgcg agaagctact 180
tcaacacctt cggtggtaac cctgtcagca cagctgccgg ccacgctgtt ctcaaggtag 240
tggagaagga gaagctgcag gagaatgcgt tcgttggttg ctctacctg aaggagaaac 300
ttaacgctct gaaagagaag catgacatta tcggcgacgt tagggggaaa gggctccttc 360
tcgngtga gctggtgacc gatcgccaga agaaaact 398

<210> 4661
 <211> 448
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: LIB103-062-Q1-E1-F9

 <400> 4661

accggtcaaa ctagtccggg tcgacgggg cgggagaga cgggtgctga acgtgacatc 60
 catcggcacc agcgtggtga acatgctgag ccacctgctc tgcgactgcg gcgagaaggc 120
 cggcaagcag cagagcaggg gcttcggagt gcgctgctgg gtaaccagat agtagtacta 180
 gcagttgtac tacaagttaa gcgcactcgt taattactga ttgattgtcc gcttgctgcc 240
 actgttgctt gtaagtaagt actaagatgg aaagatgaat caatccatgt gaatcgtgac 300
 cgattgatgg attgctttgt gcatgcatgg gatgggagga gggccctttt ggttggtgctg 360
 ttggttagtg gcagagcatg tggctttgtg gggaggaaag aaagaccatt ggtcccagacc 420
 cacatgagag accgacggag tgcattggc 448

<210> 4662
 <211> 355
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: LIB103-062-Q1-E1-G1

 <400> 4662

ggtcgacggg ggtagaaatc aaaaaatagc atcaagtgtt gatggttaac aaggccacta 60
 gtttcaagaa aagggcaaag ggaaagaaag aggaacttca aaaaagaata gcaagcaagt 120
 tgctgctccc atgaagaagc ccaaagctag acccaagcct ggaactaagt gcttctactg 180
 tgaatgaaat ggtcactgga agcagaactg cccaaatact tggcggataa gaaggatggc 240
 aaagtgaaca aaagtatata tgatatacat gttattgatg tttactttac tagtgttctt 300
 agtagcccta gggattttga tataggttcg gttgctatga ttagtaactc gaaac 355

<210> 4663
 <211> 325
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB103-062-Q1-E1-G10

<400> 4663

ggtcgacggg tccataaagc catcggaac ataaaagtgc gtacgtggtg ggcagtctca 60
cgaatgtctc gatgatgtga agaacatcct gttgtttggt tcagatcgaa gctgtagcac 120
ctggatgatg catgttcctt tatctgtaaa atgtgatgtt gtgaagttgg tgggggttga 180
gaattcttca gttgagtttc cttatgcgat tcaataagaa catcattgtt tagtgcaccc 240
aagacctcgc tgtgatcctt ctctgtttgt gctttttttc tccttaaaaa aaaaaaaaaa 300
taaaagaaaa aaaagcggcc gctct 325

<210> 4664

<211> 438

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB103-062-Q1-E1-G11

<400> 4664

ggtcgacgac gactcctact aactggagg tgcctactac tacgtgcagc ccgctgacaa 60
cgaccaggag tagtttagga ggatcccagg caggaggcct gcgcctcttt cgatttgtat 120
cccagtttgt gctagtcttc ttaaggcaaa cttgtttaac ttatgtctgt actcagatat 180
tgttgcttcc gctgactcgt ctatgatcga gcacttgtat tcgagccctc gagggccctgg 240
cttgatttat gatgcttgta tgacttattt tattttaga gttgtgttgt gatattctcc 300
agtgagtcac tgatcttgat cgtacacatt tgcgtgcatg attagtgtac aattgaatcg 360
ggggcgtcac actatctata cagtatatta tgaacctatc atctgctagc tacccttact 420
tctggagcct attttttg 438

<210> 4665

<211> 401

<212> DNA

<213> Triticum aestivum

<223> unsure at all n locations

<223> Clone ID: LIB103-062-Q1-E1-G12

<400> 4665

catccctaaa accattcacc ggtgtcatgc accggtgacc aatcccgta tgttcattca 60
gactcagtac ttcatgaaa tcaccgaaac acacccatgg cagaccgtca tcctcagcga 120
gagatctcaa cacgtcccaa gtcttgctc tatcactgac ttgtgcttca ccgtacatca 180
ctgtgagccg ccatggagaa gcaccaggca aagtaacatg agcatctatg tgataagcag 240
agtaacaaaa attttcaatc tttatttcat tattccaaaa aataccgaga ccaccactcc 300
taccagagct actaacagca natgaattat cataacctag ggtgcttgct aagttttcca 360
ctctatctct cgggagttga gtttcaacan tacaagcac c 401

<210> 4666
<211> 247
<212> DNA
<213> Triticum aestivum
<223> Clone ID: LIB103-062-Q1-E1-G2
<400> 4666

cgaaggcaat aaaacatcta aataaacttt tcccgaaaca aatttccatc cagcttccac 60
aggatgaagc attacttacc agttggaagc aacaattgga tcgtgatgtt gaaaccctta 120
aagcaaaatc taacatcggg agaattcgta cgtttttgaa ccgcattgca atcgaatgca 180
atgaccttga tgaattattc attaaggatc agtcaactgac taatgaaaat gtggccaaaa 240
ttgtcgg 247

<210> 4667
<211> 262
<212> DNA
<213> Triticum aestivum
<223> Clone ID: LIB103-062-Q1-E1-G3
<400> 4667

tacatacgct ttccacgaac aaggtttcca tccagcttac acaggatgaa gcattacata 60
gcagttggga gcaacaagtg gcttgtgatg ttgaaacca taaagctgga gtctacatcg 120
gtagcaatcg gacgtttttg aatcgcatg caatogaatg gactgacctt gatgcaatac 180
tcactacaga tcagtcactg actaatggaa atgtgggcaa gattgtcggg tacgctgtca 240
atgatcatct taaggaaaaa ta 262

<210> 4668
 <211> 132
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB103-062-Q1-E1-G4

<400> 4668

cggaggccgt tgcgtagtgg cgctcagcac ggccaacctc tcacagttga acgacgtcgg 60
 ccctggcgcc aagctgatga agatcggcag ccgctccatg tactcaccgg gattcacgtg 120
 ctactcggcg ta 132

<210> 4669
 <211> 394
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB103-062-Q1-E1-G6

<400> 4669

ggtgcggagt cgacggcaac acggaggtga aaggagttcc atgtccgagt cggcgacaac 60
 gtgcgtcatc gtcggcaaca tggaggcgag tcaacggcaa ggtgcggcac cggtgacgaa 120
 catggaggcg agtcaccgac gagttgcggc accggtggca aacaggcggc agcgagcgtg 180
 ccacggcagt gcactcatgg tgaaggcgca cgaggtgcgg ctctcactga agctagcggc 240
 gacggcggca atcgatgtga caagatggca ttggcggcca tctccgtgtt gcaccgacga 300
 catcgacgac cacgggcttc aagagagaaa taagttaaca agattatgga ggtgaatgtt 360
 agaactaatc ttgttattag cgctagtttt agat 394

<210> 4670
 <211> 498
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB103-062-Q1-E1-G7

<400> 4670

gggtcgacgg ggatacagac aaaaacatca agagacagat tatctcgcat tgaagcagaa 60
 ttgtcacttt tgaaagaaag gcagaaggga ctgactgagc agtgggagcg tgagaagtcg 120

gtgatgacaa agatccaatc tattaaggaa gagattgaca ggttaaagt ggagatccag 180
caggccgagc gtgagtatga tctcaatcgt gctgctgaac tgaagtatgg tagtctgaat 240
gcattgcagc gggaccttca aaaaactgag gatgagctaa atgaatatca aagttctggg 300
aatccatgc taagagaaga ggtgacccaa gatgatattg cagagattgt gagcaagtgg 360
acaggtattc cagtttccaa gttaaagcaa tccgacagag aaaagctact gtatcttgag 420
gacgaactgc acaagcgtgt agtggggcag gatcctgcag tcaaagcagt tgcagaggcc 480
attcagagat ccagagct 498

<210> 4671
<211> 458
<212> DNA
<213> Triticum aestivum
<223> unsure at all n locations
<223> Clone ID: LIB103-062-Q1-E1-G8
<400> 4671

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agcatataaa tcaaagctca ctttaggggg attatttgta ggcaagaaag taaagctctg 120
aacagagatg tttgtgagga tttgggtgctg gccacactca tctgcatga agttgggtgag 180
gccggcatta gaaatatatt gcatgaactc ctcatgaatt ccagcctctt gcaggaatgg 240
ggtgtgcggc catccgcacg gacgtacctc cgccaacccc cgagggtgga gatcactgtc 300
agaagactcc ccgataaacac cettggagtt cttcttcgag ccaaacttcc tgaagatatt 360
catgttcgcg tacaattttt tgaaaataaa aaaatttggg gtgatgaaaa atcgtcaacn 420
aaactttata agattgatag caactactca tagggata 458

<210> 4672
<211> 413
<212> DNA
<213> Triticum aestivum
<223> Clone ID: LIB103-062-Q1-E1-G9
<400> 4672

cggggtcgac cggtgaagtc aaggacatgg gttccgacaa ggaggagtag ggcatggaag 60
acagccggtg gcgcctcatg tctcatgtgg gccagtccat gtcccatgtc gtactcatcc 120

ttgccggctc cgattcttca ctttgcgggt ctcacggccg acagacatgg gcacggaagg 180
gaacaaccaa ggatgggcat caacgaagat tagactaatt ttaccttgc aatgtaattg 240
tatggatttg atgatttgct agtaatgtcc ctagatgtga aagaggacat ttcggaggag 300
cctgtggagg ataccaaaga ggatgccgct gtgtgaatcc gccagaaacc tggcgccaac 360
atttaccaag tcgttgtagc tggagcacca ttgtttggga gctctcgttg tac 413

<210> 4673
<211> 373
<212> DNA
<213> Triticum aestivum
<223> Clone ID: LIB103-062-Q1-E1-H10

<400> 4673
tacggcaaat tattagcaac gggagatagc cygagatgaa acggcgagta ttaagtcagc 60
ttcgtcggtc aggtcgggcc ttgtttatcc cgtgtcctgc tggccctgaa caaacccaac 120
agctcgagta acgtgacttt gtactctaataaatagtgtc acggtctctg gaaacaaaac 180
ttctatttag atggctcagc attttttttt ttgcgaagaa tggctcagca ttcattgacga 240
atggataaca acttgactgt caatttctgt cacaaactca caacccttgg atgaataaaa 300
atatcttaaa tgaaatagaa aaataggggg cgcctacttt tcgcgcaact gaaaaagggt 360
gacctcagcc gat 373

<210> 4674
<211> 349
<212> DNA
<213> Triticum aestivum
<223> Clone ID: LIB103-062-Q1-E1-H12

<400> 4674
aaggatggag gtaaaggcgg ttcacatcgg gctcaggctt caagcttcgg cgggttccaa 60
ccaagcaaaa gtcccaaagg ccacaaaaac caaggacaat ccccgcaaaa caatcaatgc 120
cgaaaagcca actctcaacc aaccctcgag taaaaacgat cggagctctt gtctcgagcc 180
aaggtaatgg aggaggcgat gcaactatac aggggaagctt gcgcgggccg cgggaccgaa 240
ggcttcctgt aggttgacgc tttgaactct cctgcctgtg gctgcgtggg aagtcgctcg 300

gtggcggtgc ctggcacgga aacatgtcct ttgttacctg cacggtgac

349

<210> 4675

<211> 351

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB103-062-Q1-E1-H2

<400> 4675

gttgggaggc aaccaattt tatttttggt ccttactttt tgattatggt tagtaataaa 60

taattcatct atcctgtggt aaaatgtggt ttaaggcttt aaattagggg tggcgccaat 120

taaaaccttt tggaggactt ggggaaattc tttgcaattt ggcggtaaaa aacagaaact 180

ttacggccca caaaatttgc tgccgttttt tacgggaaat tgcaattagg ttgatacctt 240

ttgcagatga ttaatagata aattcctcac gtcaaaaaat ttatttcaga atttttgggg 300

tacgaaagta ttcgaaacct acagattact acagactggt ctgtttttga c 351

<210> 4676

<211> 463

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB103-062-Q1-E1-H4

<400> 4676

gatggcgaac ggataaggag gccagcagcg tcgcccacat cgagcacttg tttgccgagc 60

tctcctcggt cggtcagaag gtgcttcaat tcaatatgct gtccacgtct ggtgggcagg 120

atgccctcaa ggaatccgtg gacaagcatg gcggctgccc cggcaacaag acggtctatc 180

tatattctgc ccaatgcagc gcggactgca acgaggcatg ctctaaccac tgcgacatgg 240

actgccccta catagccgca agatttgggt acatcatggc tacacctgcc aataagaaag 300

ccatcgacca agacatggaa tgcttcaagc gttgctcaaa ggaaaaggat gccacaaatg 360

acaaatgccg cgttgcatgc aagctggctg cctcgctccc ttgaaaatgc atactctctc 420

tttttttaac ccatgcttca ttcaactctc cttttttttt ttt 463

<210> 4677

<211> 481

<212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB103-062-Q1-E1-H5
 <400> 4677

tccgggtcga cgggtagacg attctgatgg tgtatacctc gtccatttga aagagcttga 60
 actccggatc tggctccata agggggacga ttggttgctg gtccacaaca tttgtctgcg 120
 tggcaagttt gctggtttga gtatgctaga tggcaatgct tttctccaaa taaaacaggt 180
 gggggacaat gccgagtatg tgttgctgga gatgatgtgt caatgcgcac tctacttgga 240
 tatcaagtgc aggacactgc atacagtgta tgaggtgaca aacgaggatc gatatttggg 300
 cgatatacat cctttcatga tgatatggcc tccaaagtcc cctgcgctca aggatgatcc 360
 tgcaacggca agaaatgcc a tggaagaac aagcctataa ctgggagttg ctggatggta 420
 tgtacatatg tcagtggtaa gctttggcgg gtgcaatcaa agatgagctg agctgcattt 480
 c 481

<210> 4678
 <211> 486
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB103-062-Q1-E1-H6
 <400> 4678

ggggcgaaaa aaaactagcc tcccttggcc tcgagagaga cacatgggaa cgggtacggg 60
 aacgggtgtg tatttactga aaatacaaat acgtaaaatg tggggtatat ggcccttctt 120
 tttctcgtcg caaacatttt ccagaccggg aacttggtggg cggggggcgc agagatagag 180
 taccacacgc atcacatgcc cctgtggaaa ttgcaagtag caaaaaagga aaaaagaaga 240
 taagagccga gccccgcccg gtcaagaaaa aaagagcctg ccggatgcag caaccgaccc 300
 gaggtggcc gactattttg ccccggcata tgctgctcgt ctgatgctct cgaatctctg 360
 gattatttgc ggaatatcct ttgccatcat taaacaccgt cgaaagagac aagcaagcga 420
 gctcgtctct gatcacaacc agctcgccca aggggcgaaa cgcactacta gtctgctaca 480
 gtacat 486

<210> 4679
 <211> 492
 <212> DNA
 <213> Triticum aestivum

 <223> unsure at all n locations
 <223> Clone ID: LIB103-062-Q1-E1-H7

<400> 4679

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 gttgcagcgt tttcggcttt gggaaccttc tagagtttcc cagcaggttt ttctggtatt 120
 gggaaccttc tagaagggtc caaccggttt tctgtttct tttttttcc tttttagtgt 180
 ttctgtttat tctctgttt cttttttatt tatttttctt tatgctgttt cttcatttcc 240
 tcttttcttt tatttttgcc ttttttcctt tttcatgttg atttcatgtt gatatttgtc 300
 ttttttctaa aattaaaaaa atcagatttt aaaataagct ccactctatt aaatatgttc 360
 ataaatccga aaaattgtta atgtaaattt gttcacaat ttagaaaatg ttcataattc 420
 anaaatactt ctggaatttt aaaaaatgtt cacggttgca aaatttggtc cgtgattcaa 480
 aaaatgttcc cg 492

<210> 4680
 <211> 402
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: LIB103-062-Q1-E1-H8

<400> 4680

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 ctacaactgc gcggagtgcg acttcgatct gcacgccaaag tgcgcgctgg gtgaggagaa 180
 gaagggagag gaggtgaatg ggcaggagca tgccgctgcc ccagctgggt acgtgtgcga 240
 gggagacgtc tgcaggaagg cctaggtagc gttagcgttg tgtgtgttcc ttgccagctg 300
 aagcgtgtct gaatcatgtc ctgtgtggtg tgatgataaa taaatcttgc atccgatgat 360
 ttggcttggg aagtatttgt cgtggtgaca tttatgtgca ag 402

<210> 4681

<211> 434
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: LIB103-062-Q1-E1-H9

 <400> 4681

acggtctact attccgggtc gacggggaaa acgaccaacc catggacgag gagtatgagg 60
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 tcatgatgga tgatgagacc gaggatgatg atgaagatgc tgaaggggac ggagaggggtg 180
 acgaggaaga atatgacgtg aaccatgctt ccgccgatgt tgatgatgag atggacgagg 240
 atgatgatat aggtgatgat ggggatgatg gtggtgatgg agttgaggtg aatgcagatg 300
 aagatgaagg cgcgacctca tactcgtcag agtacagtga ataagagctt ctgtctccgg 360
 tgaccattta tgcaggtagt gatactgggtg gacaataata agccttttgc ccctttttgg 420
 gggcatagtg ggct 434

<210> 4682
 <211> 390
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: LIB103-063-Q1-E1-A1

 <400> 4682

ccgggtcgac gggcaaaccg aaggggaactt gcaaaggggtg ggcgacaagg gaacgccgac 60
 caaccgacgg attgcagcca ccattagacc tttgtggatg cagttgtggc attatttttc 120
 ccattgaact gccagggggg aatgagcttt aatgctgggt gtgttggtgca cgggtgaaac 180
 gtttggtgtg gatatttacc gtaggcattg ttttgtaacca ggtgccttgg taattgtcct 240
 ggtgtggaat ggatggtttg gaattttgga acggccatgt aagcgtgtaa tcctaattag 300
 ggctcaacc tatatccatt cgaaggacac cctaagacgg taattaaatt tgaaccctta 360
 ataaagcctt ttaatataat tttttgttcc 390

<210> 4683
 <211> 416
 <212> DNA
 <213> Triticum aestivum

<223> unsure at all n locations
<223> Clone ID: LIB103-063-Q1-E1-A11

<400> 4683

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catacaaatt tacttgggaac ggcaggtaaa taccgcatat aggtaggat agtggactca 120
tatggaacaa ctttgggggtt taaggagttt ggatgcacaa gcagtattct cgcttagtac 180
aggtgaaggc tagcaaaaga ctgggaagcg accaactgag agagtgacaa cagtcgtaaa 240
catgcattaa aattaatttg caccaaatac aagcatgagt aggatataat ctacatgaa 300
cataaatatc atgaaggcta tggtgatttg attcaactac atgcgtgaac atgtgccana 360
tatagtcact caattcattt aaaggangga tacatcccat cnatacacat cataat 416

<210> 4684
<211> 456
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB103-063-Q1-E1-A12

<400> 4684

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ttgccacaat catccttgct gtacacacct ttcgagtggg acacgcatga attgtgaatt 120
attagaatac tctatgtgct tcacttgtat cttttgagct aggcaatttt gctctagcgc 180
ttcgcttata tcttttagag cacaatagtg gtttttagttt gttgaaatta ttgaactctc 240
atgcttcact tatatcattt tgagaatctt tttaaacaac acagtaattt gcttttggtta 300
taaatttagt cctattatga tagacatcca agagggatat aagaaaaact ttcataatac 360
gtgcattgaa ttccatgaga actttgattc cttataattg ttttgagata taaagatggg 420
gatattagag tcatgctagt gagtaattgt gaattg 456

<210> 4685
<211> 239
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB103-063-Q1-E1-A2

<400> 4685

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 gttgaaaaat ggttccttgc ggtgtaggta ccccttggtg aaacccttga tgatacccca 120
 caacaacggg gaacttgtgt gatcctccgg tctgcccgt acggtgtaca aaaatttctt 180
 tgatggaaat gtgatttggc caaatggttt cagtttcaaa aaagaaaatg aaccggaaa 239

<210> 4686
 <211> 314
 <212> DNA
 <213> Triticum aestivum
 <223> unsure at all n locations
 <223> Clone ID: LIB103-063-Q1-E1-A3
 <400> 4686

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 atggtaatta atggccagtt tggacaagga caatggaacc ggattctggt taataccaaa 120
 atggtaaccc attaaatccc ggaacaataa gtgggtccat taaaatgaga aatagggtta 180
 agggcatggc cccatgggca atgggttatt cctaataat ctcgaacgta ntgttacaca 240
 tattcatagt gtgaatacca aaagatgtaa agttgataac gatagtccca catacttgtg 300
 gcactgccgc cttg 314

<210> 4687
 <211> 295
 <212> DNA
 <213> Triticum aestivum
 <223> unsure at all n locations
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 <400> 4687

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 tgttgaaact ccaatgccgg taaaatggct tcgcgccttc agaaatgata tgaactcagt 180
 tatacggacc atgcttacat tcttgaccg ctagttacag cgtcatgagc aaagatatca 240
 tgtgaccgat gtttgagcat agatctggcg ttgtaaccat tcagtaatgt aagct 295

<210> 4688
 <211> 342
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: LIB103-063-Q1-E1-A6

 <400> 4688

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 tttgtgaagg cgaccattta gcggcacctt gctgaaaagg ctatagcggg ctatagcggg 120
 gctatagccg gctattttaa actatgatta gagagtgatg ttattttctt cctatgttgt 180
 acaagccaga aacgttttgt gaacggaaac accatcatgg cctttaataa agctacaatt 240
 gaatctttac cattgttttt ctgtaggcat ttgtttgctc tgcttaaaac tgtaaaagg 300
 ttaggttga ctgcagttca tttgggctga ggaaatccat gc 342

<210> 4689
 <211> 356
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: LIB103-063-Q1-E1-A7

 <400> 4689

 gctaaaggac gccaaaggtag tgcggcgagg acgggctcgt gacccctcc acatccacgc 60
 atccaaacta caggccggcg cggacgcgag ctagatggct ttggaaaccg aagcgggtggc 120
 gtgctcgtga tcccctccca tgcgtgtttg aggagcgtga atccaggggc agcatacgcg 180
 gcgagatccc atcctaggcg tccttccgtg gtggaagatg atggctggta gtggatctgg 240
 tggatcctag cctaataagc tcgaagccgt gatgttgtac tctgctttca tatgaatacg 300
 actacgctct ctcaagaaaa atcaacgtgc ttacttggt gtgatttggg tttttg 356

<210> 4690
 <211> 421
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: LIB103-063-Q1-E1-A9

 <400> 4690

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ctctctagat cggctatgga gtttggagga tgtgtatatg gatttggcgg cgagcgctgc 120
cgatgcggcc aagtacttcc agggtcagac ggaccatgaa gtggaccatc tattttggac 180
acaattccat tctcccagac gtccgctttc attgattgac caattatccg aatgggcccga 240
actgaatagg ttgtccggac ttgccatgag gtctgttggt gatcagctat ggccggaaag 300
gccaaaactg aacagctatt ttagcttggg gcacagctc cttgacgtgg tgccgcgcac 360
taatgcgatg aagaggttgg cgtgcataga gggctcacgg atggcctttg cccgtgttaa 420
a 421

<210> 4691
<211> 319
<212> DNA
<213> Triticum aestivum
<223> Clone ID: LIB103-063-Q1-E1-B1
<400> 4691

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accttcggcc ttgcccttgg tcctggcttc ccttggccgg ttgtaatcca atggaggctt 180
aacggcccca atttctccaa cggctggcaa ggccttgcgg caacggaagc ctcaaacggc 240
tgccaaacca ttgaaaaccc gtattcttct ccgcttgggc atcaactgct gcttcttccc 300
cggctccgcg tcttcccct 319

<210> 4692
<211> 238
<212> DNA
<213> Triticum aestivum
<223> Clone ID: LIB103-063-Q1-E1-B1
<400> 4692

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cgcaagggtc cgctcttggg ttcaactgagt gtttgccaac cacatcggat ttgcaacctc 180
cacggaaatc atcctagtcg ggagatcacc caaatagatt gattctacga tgaatgcc 238

<210> 4693
 <211> 435
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: LIB103-063-Q1-E1-B12

 <400> 4693

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 aagatgtgcy acatgtagag gatcttaatc ccaggtagct aagatgggtgc cctgtatata 180
 caggcgggctg attgtccggg gtcaagccgg acttatgaat atgccgaaat gaaacagcaa 240
 cttgacgagg cagaaaccga catcgcgctg gttaaccaac ggcttgatga ggctcaagggt 300
 attcatactt cttggcgagt attagtaaga ggagttatag gttaatatct taccttgtgt 360
 atgcttgatg cagatgggtgc ggagccggtt gaaggactta aggccgaact tgccaaggcg 420
 aagagccaag cagag 435

<210> 4694
 <211> 306
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: LIB103-063-Q1-E1-B3

 <400> 4694

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 ggggcacgaa gaaggcagca gggcaaaaaa aaccttgaaa atttacagat tcaaacctc 120
 cacggtgttg aagcaggtgc acccgactt gggaatctcc tcaaaggcaa tgtcaatcat 180
 gaacccttc atcaacaaca tcttcaaaaa cctcgccggg gattcggcca atctggccc 240
 ctacaaaatg aagcccacca tcacgtccc ggagatcaag acctccgtcc gctcgtcct 300
 ccccg 306

<210> 4695
 <211> 448
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB103-063-Q1-E1-B4

<400> 4695

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accatggtat cggcttggtc aaattaatgg gaaaaagcat tggttccatt gcaaggcagg 120
cttcccttcc aagtgggcag gttgagtcg gcttaatacc agagggccca tttgcgctcg 180
atggagaata tgggtgttta cagcacctcg agcagttaat aaagaacaag ggattctgtg 240
tggtttgtgt tgctgaagct gcaggacaag agttactgca aaactcaggt gcaactgatg 300
catcaggaaa tgcaatactt aacgacattg gtgttcacat gcaacaaaag atcaagacgc 360
atttcaaggg catcgggtgc catgctgata taaaatacat cgacccgacg taaatgggtcc 420
gggcttgtcg tgccaatgca tccgatgc 448

<210> 4696

<211> 341

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB103-063-Q1-E1-B5

<400> 4696

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ccagtacgtg ttcttggttt tctgttaga ggtctttcca cagttccttg ttctagtgtt 120
tgccctacac atggttaggat ctacctcata tatgcatctt gatctactgt gtgctcgata 180
gatgatcggg tctagctcct atatgcacat gttatttacc ttcactttgt cagatcgcat 240
gacttggttt atcactgcta tactagtcac gatttatcta gtaattctgt tatcatgatc 300
actcgataaa attgctcata tttccaacat actcactccg t 341

<210> 4697

<211> 170

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB103-063-Q1-E1-B8

<400> 4697

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gcgtacttcg gttgggttca tcgagtatac agccgtgtca cagaacccga tcctgatcat 120
 tgctgctttc atcttatgtt cgcaatatcc agattgcact cctacattct 170

<210> 4698
 <211> 409
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB103-063-Q1-E1-B9
 <400> 4698

gccgacggga aaattgatcc tcttgatgtg gacgcctgcc ctcgccctc tcttcgatcg 60
 cactgtgctg ataatgcgat cgagggcctc gatcaactgc acaaacta tgcttccctt 120
 gtactagtac actacagtct cagatgatga taacgcgaca gatatggact gtgctttag 180
 taacaaaata tgggtgctgg ggctgcactt aagctttacg agagtacgac tgaccctata 240
 tgatgcaggt gtgctctctt cgaaaatata ttgtctctc caatgctttt gggatggatg 300
 ggaacatccg gggccagtgg tgctgcctca tcgcgtttgg ctgcttccca cacttggcta 360
 tctccatgac cctgtttcaa gaatggggat gtacctagtc agaagtcac 409

<210> 4699
 <211> 426
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB103-063-Q1-E1-C11
 <400> 4699

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 tcgacggcaa cgacaccgag ctctctctcc gctccgccgc cctcatcaac cagaaatgcc 120
 atgtcaagaa caaggatata aggaagttct tggacggcat ctacgtcagc gacaagggcg 180
 ccatcaagga ggagtagaga gccggaaacc gtcccgccca ccagaagccg tgtttctgcc 240
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 ctttctctag actgaatttt gtagcggagt taaattttta gggatgtgcc gtggaacatg 360
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 agccct 426

<210> 4700
 <211> 410
 <212> DNA
 <213> Triticum aestivum

<223> unsure at all n locations
 <223> Clone ID: LIB103-063-Q1-E1-C2

<400> 4700

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 gccatgcatg caatgtggaa caaggaaggc atccaagggt tcttcaaagg attgcatgct 120
 cagatactaa agacagttct aagctccgca ttactgctga tgataaaaga gaagatttca 180
 aagttcactt ggatctcgct gcttgcgctg cggcgatacc tctttgtttc tcggaagaga 240
 atcaagagtg cataattgta ttatatattt cagacctgag aaaaccagtc taatcgacca 300
 ctggtatttc aagatctcat actaccaa atacagaagta cagaagcgga acaacacgat 360
 tatcttgaga gcgccatgga atgttctgaa taaatttact tggntttttc 410

<210> 4701
 <211> 281
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB103-063-Q1-E1-C3

<400> 4701

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 agatcagaac ctggttcggc ctggtcttcc cgggcaagct cgcaaaccac gccttctcca 120
 agggcacaaa ggccttcaca aatttaacct ctcccaaggc ttaacctccg tttctcaacc 180
 cgttggattc ggtaggtatt aacctgcagg attgtgtcct gaatgtgtaa ccttggtgctg 240
 ctggtgggtc tgaagaaata ttcattgggac tgcttaata a 281

<210> 4702
 <211> 369
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB103-063-Q1-E1-C4

<400> 4702

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ttgctgcaat tcaatgctaa aaatgtgaaa agccgagcct tcaagaaagg aaatttggcc 180
ctccgagtgg ttcaacagaa accacacaaa cttgccccaa cttgggaagg tcccttcac 240
gtcaccagag tcctccacaa tggagcatat cacctctaca aggttgatcg ccagatcgac 300
gagccacgag cttggaatgc ggaactattc cgtccctttt aaacttgagt tctcccttgg 360
acgggatgt 369

<210> 4703

<211> 476

<212> DNA

<213> Triticum aestivum

<223> unsure at all n locations

<223> Clone ID: LIB103-063-Q1-E1-C5

<400> 4703

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acctttttta ctatctcttg ttgatacaca tcccccgat tctcagtaca attgataagg 120
atgctgacgt attggcatgt ggccacgtca gaatgttgca catacctgga caccaggggc 180
ttattacaaa gggcactgtt tatgcccgat ttacgccata nagaccgaat accttaagga 240
gtgttcggcg ttgcgagttt ggccttatat gcatcagctc cgaatcatgt cattgggtcaa 300
atatttgggtt tgcccggatc ctgtgttttg ctaccttatg ttccactcta ttggctaagg 360
cggcaccagg agaactactg ccaatgttgc ctggttcatt tcgacgagca cctcagtaga 420
aaaaaccgaa aactgactgt catgatatag cgtgagacta gtcaaact ccatga 476

<210> 4704

<211> 325

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB103-063-Q1-E1-C7

<400> 4704

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 gggtaggagc catggcggac cagctcaccg acgaccagat cgccgagttc aaggaggcct 180
 tcagcctctt cgacaaggac ggagacggct gcatcaccac caaggagctt ggaactgtga 240
 tgcgctcgct ggggcagaac ccactgagg cagagcttca ggatattgatc aatgaagtgg 300
 atgctgatgg caatggaccg attga 325

<210> 4705
 <211> 381
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB103-063-Q1-E1-C9
 <400> 4705

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 tgagactgtt tcgctcttgg tagcactgaa ggttcgccac ccacatcgga ttacaatcct 180
 ccgcggaaac catgatagtc ggcagatcac acaagtatat ggattctact atgaatgcct 240
 acgaaagtac ggcaatgcaa atgtatggaa gatattcaca gatctttttg attatttccc 300
 attaacagcc ctggtggaat ctgaaatttt ctgcttgcat tgtggtttat ctccatcgag 360
 tgagaatctt gatagtgtgc g 381

<210> 4706
 <211> 440
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB103-063-Q1-E1-D10
 <400> 4706

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 cgccgagtcc ctccgtcccc aacagatcta cgcgcgaggt tcggttcggt ctccggagct 120
 cgagacatgg cggaggagaa tgccccagtt gaggttgctg ctccggttgc ggccccctacc 180
 ccagttcttg gagagcccat ggacttgatg actgctctgc agcttgtgat gaagaagtca 240
 agcgctcatg atggacttgt caagggactc cgtgaagctg cgaaagcgat tgagaagcgt 300

gctgctcaga tctgtgtgct tgctgaggac tgcgaccagc ctgattacgt gaagctggtg 360
aaggcactgt gtgctgagca caatgttcac ttggtcactg tgccctagtgc caagactctt 420
ggcgagtggg ctgggctttg 440

<210> 4707
<211> 431
<212> DNA
<213> Triticum aestivum
<223> Clone ID: LIB103-063-Q1-E1-D11
<400> 4707

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gccttctcca caggggagat ggcggcggag gagtgccgga tgagggtcct ggagaagttc 120
agggagctgg acatgctgga gatgtgccac cccgatggccg agcaaacggc caccgtctcc 180
gtcccgetgc tcctctcccg gctgtaaaca gtcgccccct aaactaccta cctattgtcg 240
cggcaggttc gccggccggt cattccagtg attgctcgga gaaggcagcg tgggagcaat 300
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ataaaattac tgctgggtaa taaaagattg tgggcgtctg gtatgtatac tgtcagcgtg 420
atgcgggggt t 431

<210> 4708
<211> 129
<212> DNA
<213> Triticum aestivum
<223> Clone ID: LIB103-063-Q1-E1-D2
<400> 4708

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ggccaaaaag aaaaaaaga aaaaaaggc ctaaaaaaaa aaaaaaaaaa aaaaaaaaaa 120
aaccggccg 129

<210> 4709
<211> 213
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB103-063-Q1-E1-D4

<400> 4709

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taaaaacctt gaaccaatta aaaaagggtga aaatttccaa aaaaaaggaa aaggtcctta 120
aggtggaaag gccttcccca atgaagaaag gtgcaaagga aaaatttaaa ccgaaaaaca 180
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<210> 4710

<211> 470

<212> DNA

<213> Triticum aestivum

<223> unsure at all n locations

<223> Clone ID: LIB103-063-Q1-E1-D6

<400> 4710

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atttgatatg tgggtggacc gtgcttaggt gttgttctta cttgaacaag cctectactt 180
atgattaacc ctcccgcaag catccgcaac tacgagaaaa gtattatgaa taaattcaaa 240
ccatagcatt aaactctagg atccaatcgg tcccttatgg aatagtgcac aaactggggg 300
ttaagtttct gtcactcag taaccaccca tctatttact attccacaat gcattccctt 360
acgcccacaa atggtgaagt gtcatgtaac cgatgttcag atgacaccac taagggaatc 420
acaacataca tactatcaaa acaatcaaca catatcagac tcacattaat 470

<210> 4711

<211> 375

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB103-063-Q1-E1-D7

<400> 4711

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ccgcgcagct cgcgggcaag gaggggttcg atccaatctt tctttccact tctcctgag 120

tcctgaacta ccaacgcggc tgtaaattctc tgccatcgcc gtccgcgttc ttctcatcg 180
 caacatcgtg cccctccgca atatttgccc agtgggttct aaggtcaaag accagagtat 240
 aaaataaaagg tgggttactg ttaatatctc atacaatgga gtccttggtg aagctgtcct 300
 atttgcttga gccggcgctc cttgctctca tcgtgacggc tgtttcagtt gcctatgcat 360
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<210> 4712
 <211> 478
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB103-063-Q1-E1-D8
 <400> 4712

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 catcctactc cctcgccctag ggactcctcg ggtatagaga cgacccacgc atcgggtgcag 180
 acgagtccca tcaegtcttc acctcttccc gtgcaacacc agcctgctcc acctccacca 240
 gagcaagaca tggcaaactt tcccctagat cctctcgagt ttcttccgcc ggggttcgag 300
 atcatcgatg gaggtccaac ccgtctgcct cggaccttct actctccggc cattgcacct 360
 gagcgcgcgc acgagtagtt cgccattggc tttgtcgagc ctccgccgcc acctggacag 420
 attcatccct tctattaact ggtagtgat tttgtgatga cccagctgca ccgtgacg 478

<210> 4713
 <211> 109
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB103-063-Q1-E1-E1
 <400> 4713

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 gatattcata acattcatct ccatcatcat aatcttaaca gcaatcgcc 109

<210> 4714
 <211> 431
 <212> DNA

<400> 4716

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gacagtttag taaaactgaa aaaagataac agaggaagac agatgttgta gtaaggtgcc 120
caaccaacca aaaggcacca aaagaccttt taattttttg caaaaaggca ccaaaggaat 180
tattacagga gaaaccatgg aatatagacc aaatgttata cctaaccaa ccaaattgga 240
aaagccccag gatgtgtacg ggtaatgaaa tcaagggccc tcaatgcaat tatcaccatc 300
ccaatatggc accactgtat tcaagccaaa ggtgagttga aaatacaaaa agggaattcc 360
aaaaaaaaaa aaattaattt tt 382

<210> 4717

<211> 372

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB103-063-Q1-E1-E5

<400> 4717

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ttccttatgt ggagagtaat aaaatttcta tgcttgtaga tcatgaaaac aatgctttat 120
gtgatggta tattgttgaa ttcattcatg atgctactga aaattattat gagggaggaa 180
tatatgcttg taggagttgc aataatatca agtttcctct ctacatgttg aaaatcttga 240
agtgttgctt gctttacctc ctatgcaagt tgattcttgt tcacataagt tgtttgctca 300
caaatccct attcatagga agtggggttag acttaaagt gctagtcata ttcttcatga 360
tgctctcttt at 372

<210> 4718

<211> 413

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB103-063-Q1-E1-E6

<400> 4718

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agggtaggag catacccatc aaacggggcca agatgaagga acaagaggtc ctcagagcca 120

ataggcctct actggaccag tacaatgaaa tcggtgggca tcccgacaag agacagcggg 180
tctgcgacaa tgccgagctg ccaaaggccc tgcagcgggt tgccaagaac aagcaatcat 240
gatcttggtt atctagcagt ttgtgctgta ctatcatcta tcatgtatct ggcaggtagt 300
atttgagtcc atgtggacat gccacatgag acatcgggtg gaaaggatgc aacaaatttt 360
tgtctcgaaa taacttgatg ttctagttga tatttagctc ataaatcaac atg 413

<210> 4719
<211> 343
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB103-063-Q1-E1-E7

<400> 4719

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gaccattgct gctgctgtag gttagggaga aggctcgagg cagccaacgaa ttccgtcctg 120
cactacttca acaccgacct attctagcat gaatcttctg ccgtgaggat ttgatgcagc 180
aagggccatt tgtttgacag aaacagagtg gttaccgcaa gagaggtaca aatcaaggac 240
cgaggaggga cgaggcggc tttgatctaa gttgggtcac tttctatgaa tagatgatgt 300
gattgctttg ttattttgtt taattaatag aaaaattgat gag 343

<210> 4720
<211> 392
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB103-063-Q1-E1-E9

<400> 4720

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ctacacctga taggaaagga catattgcgg tttcatgcaa tttattggcc aacaatgtta 120
atgtcagcag ggataagcgt tcctgatgca gtttttggcc atggaatctt gacagaggat 180
ggcatgattc tgggaaactc attaaagcaac atacttgta catatgatct ggtaggcaaa 240
tttgatccgg atgcgattca ggactacttc ctgcaagcat cataccatgt gaatgatggg 300
gacgattcaa aacaattttg catccatata gtcaatgcac atctttgctc cacaattgga 360

aaccttctga atcgattact tggactccta ca

392

<210> 4721

<211> 171

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB103-063-Q1-E1-F1

<400> 4721

gtcgaccggc tgtcccaaca gattccaagc caggaggagg tggtccttgg aggcaccgca 60

aggcgacctc ccggactcca ggcgcaaagg ggataaaacc cccaagggtc ccgagtccgg 120

ccttgaccgc gaaaccttgc cggaacctca aagggtcccg gatccaatta g 171

<210> 4722

<211> 375

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB103-063-Q1-E1-F12

<400> 4722

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atgtcgagat agacatcaac agtgacgacg acgacctgga gtacacgatg aacaagatgt 120

ctataacccc gcaccactct ttcttacacc agatggccat ggacagcgac ggcggcctca 180

gcatgccagc gaggatcaga ccatcgacaa gccctccgtc gcggtgggcc atgtcaggag 240

aatcaccata gatggaagaa acagctggat acttggggct gtacaaggag ggtatgactg 300

tcaaactgat acggggagct tagttttag tgggggtcaaa gaaccattc atttgcagtg 360

tattcagccc aagta 375

<210> 4723

<211> 382

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB103-063-Q1-E1-F2

<400> 4723

gtcgaccggg cgaagtattg gaccttattg ggccatacgg gaatagagga gagaggccaa 60

aaggaaggag gcgcgcaccc cccctctggt ccgaattgga caaggggtgc agcccccttt 120
 tccttctccc tctccccctc ctctcttctc tctactcaa acaaggaaag gaggagtctt 180
 actcccgttg ggattaggac tcccccttg gcgtgccctc ctcttggtc ggccgcctcc 240
 ccccttgctc ctttatatac gggggcaagg gagcacccca tagacacaac aattgatcat 300
 tgatctctta accgtgtgcg gtgccccctt ccgcatatt acacctgat aatatcgtaa 360
 cgggtgcttaa gcgaaaaccc tg 382

<210> 4724
 <211> 482
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB103-063-Q1-E1-F6
 <400> 4724

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 tcctgaaggg ggctgatttg gggcaagggc aataagggtca ttttaagtat gtcaaaccat 120
 agtgaaaatg ttaccaatat ttagggcttg atgagacgaa gaagtgggct ttggattcac 180
 cttaaaccga gttgcgcgca agaagttgtg atagtttttc tgccaggac ctatctgtga 240
 aatgttttct gcaacaagc ccctgactga gaaaactgaa aacgcattcg ggaataatac 300
 gctttctgcg taagaaaaca tactttctgc cgtagtacat caaaaatatg cttttcagtg 360
 aggaaaacac atttgttcct gaagaacaac tgaaatgcgc ttttaggagg gagagacgta 420
 tcttacggag tacgcttcca cttaaagac gtggcagtg cggggccgct tcctgtctgg 480
 ct 482

<210> 4725
 <211> 198
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB103-063-Q1-E1-F7
 <400> 4725

gttatcataa tgaaacgctc tacgaatgtc acattgccat tgcattgatca tgtagtgtga 60
 catcatattt gtggcaaagc caccaggctt aatttttcat acatgtcact cttgattcat 120

tgcacatccc agtacatcgc tggaggggatt catatacatt catatcatgt tctagttccg 180
agttgtcatt cacgagtt 198

<210> 4726
<211> 482
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB103-063-Q1-E1-F8

<400> 4726

ggctggacgg gactaatcaa taaaagattc ttcacaaaca ggcccctggc tagaaaaaca 60
aaaaacacat tatctgagaa tacgctttca gaactgagaa atcatatttt gggctgaagt 120
gtaaagaaaa tacgctttct ccaaagact acgtatttga ccaaaaaacca tcttgatctt 180
ggcaatctcc agcaagcctt ggccagtagg gacgctacca ctgtctgtgc ataagtgagg 240
gtataaaata cccatgtttt gtacactgac aggagcccca tacacattgt cgaagcatcg 300
ttgggctagg cccaacaat gacacaaatg tggcaggaaa ctaatgttgc aattttagtc 360
atgatgattt ttctgacgca cgtccagtc actcattaaa tgtgggtcgt tggaacttgg 420
actattgtgg ttattccacg gtagtgcgcc tgtaaaagag cttgccgagg taagtgatac 480
at 482

<210> 4727
<211> 89
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB103-063-Q1-E1-G1

<400> 4727

ggtcgaccgg cgcttgacaca ggaatacaag cgaatgggta aggatccac acagggcatt 60
tcttgacatg ctctagcac accttgggc 89

<210> 4728
<211> 405
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB103-063-Q1-E1-G2

<400> 4728

gtcgaccggg cgcacggtgg aagatatgtt ttatagaaac tattgatatc tcatgcttca 60
cttagattat ttgaaagtc cttaaaagca tggtaatttg cttaaagtct aaaaaggctt 120
ggaaaataag attaataata aaactttctt atgagtgtgt tgaatactat gataagtttg 180
atacttgata attgttttga gatataaaga tggatgattt aaagttgtgc tagttgagta 240
gttgtgaatt tgagaaatac ttgtgttgaa gtttgtgatt cccgtagcat gcacgtatgg 300
tgaaccgtta tgtgatgaag tcagagcatg ctttattttt tgattgcctt ccttatgagt 360
ggcggtcggg gacgagcgat ggtcttttcc taccaatcta tcccc 405

<210> 4729

<211> 215

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB103-063-Q1-E1-G4

<400> 4729

ccggctcgac ggaacccaaa gcgaagaagc gggcgccggc gaccaaggag gccggcgggc 60
aggggaagac gaggggcacg aagaaggcca gcaaggccaa gaagggcgtg gagacgtaca 120
agatctacat cttcaagggt ctcaagcagg tgcaccgga catcggcatc tcctccaagg 180
ccatgtccat catgaactcc ttoatcaacg acatc 215

<210> 4730

<211> 354

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB103-063-Q1-E1-G5

<400> 4730

cgggtcgacg ggatatccgc attagatcgg tgtgcaaaat atagctgtta catctgaaca 60
gagaactgtg ctatccatta tgcctataat caaatattag ttcttatgta gttccatcac 120
atcatataca ccaggtttct caagctctac agttagtgtt ttatgaaaga ttgccagtga 180
cactaagggtc agggatttga ggtccctgca gacatctact cgatctactt caagtttcga 240
ttgtacacat tcgttgagtc attcatcgga attatcatgc tcttctctaa tatcactacg 300

atctaccata tcttctaaga ctactocaga actgttttagc actgagactg aata

354

<210> 4731

<211> 476

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB103-063-Q1-E1-G6

<400> 4731

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ccacttgccc ccggactcag gaggatcgtc ggagatgtcg gacaccgatg agcaccactt 120
cgagtccaag gccgactccg gcgcctccaa gacctaccgc cagcaggctg gcgccatccg 180
caagggtgga cacatcgta tcaaggcccc tccctgcaag gttgttgagg tctccacctc 240
caagactggg aagcatggtc acgcaaagtg tcaacttggt gccattgaca tctttaatgg 300
aaagaagctt gaggatatcg ttccttcctc ccacaactgt gacgtcccc atgttgaccg 360
ccaagattat cagctgattg acataactga tgatggatat gtcagccttc tcaactgagag 420
tggttaacact aaggatgacc tgaagcttcc cactgatgat gttctgcttg gccaga 476

<210> 4732

<211> 486

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB103-063-Q1-E1-G7

<400> 4732

gggccgacgg gcacttacta tttaaatga gatgcaggct accgaggtga acccgaatga 60
cgtaaccatg gtcagtgtgc tctctgcctg tgctgtcctg ggtgcacttg agatgggcaa 120
gtgggtgcat tcatacataa ggagaaagge cttgcccctt acagttgttc tcggcactgc 180
gctggtggac ttctatgcaa agtgtggatg cattgaagat gcagtcaagg catttgagtc 240
gatgcctgtg aggaattctt ggacgtggac agccttgata aaggcatgg caagcaacgg 300
aagaggcaga gaagcgctgg agctcttctc ttccatgcgg gaggccaata ttgagcctac 360
agatgtcaca ttcatgttg ttctcctagc ttgcagccac aactgcttag ttgaggaagg 420
tcgccggcat tttgatagta tgaccagga ttatggcatc catccaagga ttgagcacta 480

tggtctg

486

<210> 4733
<211> 480
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB103-063-Q1-E1-G8

<400> 4733

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gagcccatcc ccgtttcaga aaccggttcc tcgtcgtcgc acgaagaagc cggacgaaac 120
ccgctcgaag agaaacgagg accgtaccgc taagaggagc aggagcaagt gaccactcgt 180
gttggatgat tcgttttagtg caactagttg tgagcaagaa cttgtatgct atgctagtga 240
tgtctatttg gtactttcaa gctttgttgg tgatgtcgaa ttgctacttt caaactatgt 300
tcaaattatt tgaaatgtta atttgctatc tacaatgtat gcgatcatcc tattttgaat 360
tacaacaat atttgttggt atgttttttt ttgattgat aagaccaaga accaatttag 420
aagttaactg gcacataccc tactgccgga cggcacggag gtaggtgtag acagcctacc 480

<210> 4734
<211> 445
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB103-063-Q1-E1-G9

<400> 4734

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atgctggtaa accggaattg agatcttcat ctcatattc gggttacata aaccagaagc 120
atacttgaag gcttgtaagt atgcaatcat ggttacatca aagacataat tgagggccag 180
tctttagtga ctttggttca tattccgggt tatatatata aggtctatga ttcccgggtgc 240
ggtaagccgc ctagaggctt gtgacttggt ttctatgcag gatgggttaa gacagctatt 300
cgagcttaag gaaaataact aatcaattat aaccggagg aataagaaga agaagcttca 360
atggagttaa gcattcaaca cgtgcacgac ggcacgaaaa aattaagtgt ttatcctact 420
gtattacaag actccctgag tccaa 445

<210> 4735
 <211> 320
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: LIB103-063-Q1-E1-H1

 <400> 4735

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ggtcggaaat aaagggtcga ccggaccctg atgcgcaact aattaacaac ccaacttaag   60
ggcccaactg cacattttta gttatccaag ctcgttctgc ggaaggatat aaagaaccat   120
gggaacccta caagtcataa cccaaatttg gtgttgaaca attttacaac gtgccttggg   180
aatcctgttg ggaggatgat acaatctctt tcccccaag acccaaattt ccgtaggcgc   240
caatttgtaa ccttcaacat tcagcgagac tataaatttt tccgtcatca aaggtaaccc   300
tttgaggaaa aagaaaagaa                                     320
  
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<210> 4736
 <211> 412
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: LIB103-063-Q1-E1-H10

 <400> 4736

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cggggcacat aattgatggt tcggtagtgc tactcgtagc gtgcatgcat gctggttctg   60
tgggcgctat acgccgcgcg tacgtacgtt tggagaactc gatttgtttg ttgtgtttgt   120
cgcttaatta cgtcgttagg tccatctctg tcggtcggtc gtgttaagtt cttggttatc   180
tgtagtagtg gtgcatgttc ttgaggcata tgaataatgc tagatgtacg tgtcagcttg   240
tgccgtggta tgcaatgatg aaatgaatga agtattattg taacataacc aacataaccc   300
aaaatacatc atagaaaata gaccataaca gtaataaaaa aaatcagaca aataagttta   360
tagacagaca gaaaaaaaaa aacaggccgc ataaaaaaaaa gcgggccccc ca         412
  
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<210> 4737
 <211> 425
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: LIB103-063-Q1-E1-H12

<400> 4737

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ccccgtttgg attctctcct actcccagct tctttgtttc agcgcacgga gttgtcctga 120
acgcgacatc tcctagaagc cagcttcgcg gagcaaaca cccctgtagt gcaaaaacga 180
gaggcaggtc gaatgcaact tcaaaaatcg aaagaggcgg agttggacgt aattacttga 240
tatgccactg ccaagtgact ctagggcacc gtaccggttc aatcaatgtg tttatctccc 300
cgatacatc tctcccatc gagaaaccac tctaattggc ttcacgtttg cttactgggc 360
tgccggccga cgcagacgag agcaggagca gccgcggtg ccgaacgcat cactagctcc 420
aaca 425

<210> 4738

<211> 412

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB103-063-Q1-E1-H3

<400> 4738

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atccggttgt tcgacgtttg tgattgatgt caatattctt aaaagggaac tcttgggttg 120
catatggaat agttgtcatg tctttctcgg actattcttt tgcttgataa gggatctgtc 180
cgaattcagc tgactgtcta aaaattgcac tggtttatca catattaatg tcgatcttta 240
ccaaaatatt agtccttaga agttaagggg gagttttcgg tgaaacattg tggaaagtcc 300
gatttgatta tatggctgag actgttcagg gttgtggcca ctcaagataa ctcacacctg 360
tgcaatgcca tccccgtaat ggacagagct ttgggggaat aattcggaat tc 412

<210> 4739

<211> 147

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB103-063-Q1-E1-H4

<400> 4739

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aaactcaacc gctcttggtc ccatttttgg gtcaagctag ggaggcgctc gacacagcga 120
acaaggcaac cggacttata atgcttg 147

<210> 4740
<211> 491
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB103-063-Q1-E1-H5

<400> 4740

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gagggccttg ttgagtctga agactttgtc aggattcttt ggatcttcaa aacctggggg 120
ttgagcaaca tatacttctt cctcaagctt accattgagg aatgcacttt tcacatccat 180
ttgatataaa gtgatatcat gatggtagt ataagcaagt aatatgcgaa tagcctcaag 240
tctagcaaca ggtgcaaaag tttcatcgaa atcaattcct tcaacctgtg tgtagccttg 300
agctacaagc catgccttat tcctcaccac aaggccgttt tcatattgct tgttgcggtg 360
gaatcaactt tgtgccaatg atattgtgct tgagaagatc tggacgtttg accagttccc 420
agacattggt gagctcaaac tgatgtaatt cttcttgcac ggctgaatc cactcaagct 480
ccagaaatgc t 491

<210> 4741
<211> 467
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB103-063-Q1-E1-H6

<400> 4741

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ttctactact attttctcgc ggttgatgag agagactcgg aagtgaattt gtataccgga 120
agatttttgt cagccgtgca actcgttgcg cctcttgata gaaaaagtag aaattttgtc 180
aaagtcattc tatatgctta gcagcagaga tgatgtacga taccattaaa aacccttctg 240
aatgtttgtt gatgctgtgt aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 300
aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 360

aaaaaaaaa aaaaaaaaaa aaagggccgc ccaaagggtt caaagttaa aaaaaacggg 420
 ggggccccta aagggtcccc ctaaagggtt cccgaaattc aattcaa 467

<210> 4742
 <211> 370
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB103-063-Q1-E1-H7
 <400> 4742

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 tctcctcgct ctctgtgattg aacctgtaa caacggcgca attatcttca ctgaatacca 120
 ccatgaaatt atcaagcaat ttggcataat catatccgat actgttcttg ataacaaga 180
 cgcagggtct gatgacgatc atgacgatga tgaagatgag gatgatgaaa ctggtgatgc 240
 tcatgatgat gatgccgatg ctggagagga cttctcgggt gaacactgag atgacgatga 300
 cgaggatgat gaccctgacg ctaactgtga tgatgctgga gcggggagcc atgatgatga 360
 tggtgactac 370

<210> 4743
 <211> 452
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB103-063-Q1-E1-H8
 <400> 4743

ggggacgagc gatggtcttt tcctaccaat ctatccccct aggagcatgc gcgtaatact 60
 ttgctttgat aacttctaga tttttgcaat aagtatatga gttctttatg actaatgttg 120
 agtccatgga ttatacgcac tctcaccctt ccacctttgc tagcctctct aataccgcgc 180
 acttttcgcc ggtatcatat acctaccata taccttcttc aaaacagcca ccatacctac 240
 ctattatagc atttccatag ccattccgag atatattgcc atgcaacttt ccaccatcta 300
 gttcatcatg acacattcat cattgtcata ttgcttagca tgatcatgta gttgacataa 360
 gtattttgtgg caaagccacc gttcataatt tcttcatact tgtcactctt gattcattgc 420
 atatcccggt acaacgccgg aggcattcat at 452

<210> 4744
 <211> 375
 <212> DNA
 <213> *Triticum aestivum*

 <223> Clone ID: LIB104-001-Q1-E1-A11

 <400> 4744

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gatgaaaaga aacccgatat cacgaaacga ccacacactc ctattggaga tgaggtggaa  120
tgcaagaagc caaagatagc agaaggctca aggtgccaaag gagaagaacc tgaggctgga  180
gggataaaga attcctcctg ggtctgatga caggggaatg cagtaaacac cagaagcatc  240
aaaactatga tctggaacag tctcctgaat aaactatddd ctggattatg aatgaattct  300
gaagcatggg gctataagtg aattatgtaa catggatttg taactatggg ggatgttaag  360
ttaacgttct atcag                                                    375
  
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<210> 4745
 <211> 312
 <212> DNA
 <213> *Triticum aestivum*

 <223> unsure at all n locations
 <223> Clone ID: LIB104-001-Q1-E1-A9

 <400> 4745

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taccgggtccg acattncgg gtcgacgggc gggcatgcat gcgccatccc gccgggtcggc   60
caataaatca gggagcgddd ggggtggccta cagtgcgtac gtttcggata ttgatttctt  120
cgtggagtct agtggttcgtg cgtgtgtggg ttggtggtagt tgtttggttt tgtagtggtg  180
agtgcgctcg gggtgccgtg tactcctgtg tgtgtgtcaa gtgttgccac ctgcgattcc  240
attdttcattc cgtgcgatga ataaattaag aaggggtctt ctggacgcgt ctagcgggcg  300
cacggccgcc ta                                                    312
  
```

<210> 4746
 <211> 428
 <212> DNA
 <213> *Triticum aestivum*

<223> unsure at all n locations
<223> Clone ID: LIB104-001-Q1-E1-D10

<400> 4746

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tgctgcccgc tgatgacgac ctggagtagt ttaggaggat cccaggcagg aggcctgcgc 120
ctctttcgat ctgtatccca gtttgtgcta gccttcttaa ggcaaacttg ttttaacttat 180
gtctgtactc agatattggt gcttccgctg actcgtctat gatcgagcac ttgtattcga 240
gccctcgagg cccctggcct gtattatgat gcttgtatga cttatattatg ttttagagtt 300
gtgttgtgat atcttcccggt gagtcctga tcttgatcgt acacgtttgc gtgcctgatt 360
agtgtacgat tgaatcgggg gcgtcacaag ttggtatcag agccgactgc ctgtaggaat 420
cccccttc 428

<210> 4747
<211> 399
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-001-Q1-E1-E10

<400> 4747

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ttgttcaagt aagaacagta gctaagcacc ggtccacca catatcaaat tatcaacgta 120
gcgaacacaa atcatatcaa catgatgaaa gtgactggat gaaatgcccg tgtaccctca 180
agaacgcttt gcgtaatgta agagatcgtt ttggcctgtc ccttgctca aaaggattgg 240
gctaccttgc tgcacgtctg ttacgagtaa cagtacgtgc tcgtgacaaa atatcttgct 300
atcgaaccac gatgttaccg acaacttcag cacttgcata cattcccttg ctgaagacca 360
cgtgtcacta ccgtttgctc ctactgggt tccacactc 399

<210> 4748
<211> 454
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-001-Q1-E1-F10

<400> 4748

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 tagcatatca aattgttcat ctggatatgc acttcatttc attccattgt accatattca 180
 tttgaggtca tcttgatgcc ctaaagtctg ttgcaagagt gctatgtaat gttagtttca 240
 gattcttacc agattatcga catttgatcat ttttgccatg tttaatgatg aggacatgac 300
 taccttggat atgacaaaaa atattgcata tatgcatatt tgtcaggtga tttctagtgc 360
 aaactattca ataatttatt tatgttatcc agaacaaaaa tacttcacac acttttgtgt 420
 tttgtctaatt tgcaggtgta tgggacattt gtac 454

<210> 4749
 <211> 384
 <212> DNA
 <213> Triticum aestivum
 <223> unsure at all n locations
 <223> Clone ID: LIB104-001-Q1-E1-F11
 <400> 4749

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 aatccatttt cctcataaca gatgcccttg ttcaccgcat cgtaacattg caccgctgc 120
 tccgtgttgg gcgtgtagca taccaaattg ttcactctga gatgcacggc agttcgggtcc 180
 attgtaccag attcatttga ggtcagcttg atgtcctaga tgcgtgttcca agagtgttac 240
 gtggcgtcat tttcatattc ttaccagagt aacgacatat tgtcacttct gccatgttta 300
 ctgacgatga catgacgaac ttggatataa tcacacatag ggcatatcat catatttgcc 360
 acgtgatttc tagtgacac tatt 384

<210> 4750
 <211> 462
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-001-Q1-E1-F9
 <400> 4750

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aattatgctt ctaatgccta tgttaaacca tatattgaga aattcaacgc tgacgaagaa 120
gagactaata ttttgcagga cgctatggaa gaagaaattg atgagactgt gagctcattg 180
gatgaaagag atgatgagga gagcgaagaa caatggatga agagcggatt agctaccctg 240
gtccaccttc taatgagagt aaccctccaa ctcatatcatt atttaattcc ccttcgttct 300
taccgaagga tgattgcat gatgattgct atgatccctt gaatttggtt gaaatatccc 360
tttttgatga tgctttctat gcatgtggcc atgatgcaa tatagattat gcttatggac 420
atgaacttgc tataatcctt aggtgaaaca tgaaattggt gc 462

<210> 4751
<211> 314
<212> DNA
<213> Triticum aestivum
<223> Clone ID: LIB104-001-Q1-E1-G10
<400> 4751

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tgttgttctc ccacacaagg agatcaagtc aagcatcctg aagcctgaga tcgtcatgtg 120
agctcacgcg tcacaaatgc ttttaggaac gatgttggtt ggcgtctttg ttctagtga 180
tactgtaaac agcttaatat atgtggaact tgcgagactt gttaaactga tgagagtgt 240
tgtgcaaaaa aaaaaataa tttaaaaata tactatgaat aaaaagtacc tcaaagggtat 300
ctaaaaaaga acaa 314

<210> 4752
<211> 442
<212> DNA
<213> Triticum aestivum
<223> unsure at all n locations
<223> Clone ID: LIB104-001-Q1-E1-G11
<400> 4752

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gtcctaaaca acatggaaat ttgctttggt tatgaattta atcctaatat gatgggcatc 120
catcagggat atactagtaa ctttcatatg aagtgcactg aatactaaga gaagtgtgat 180
acatgataat tgttttgaga gatgacgatg gtcagtggcg gagccaactc aagtttagag 240

ccggggcaag atctacatgc tgccaaatta cttactttct acccaaaca acgtccactt 300
 cacccaattt tctctactaa agcttcatgg acttgcacca agggaacccg ggcaagtgcc 360
 ccagcgtgcc aagttctgtc accgccactg aagatggtga tattaataatt gtgctagttt 420
 agtagttgtg aatttgagaa at 442

<210> 4753
 <211> 458
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-001-Q1-E1-G12
 <400> 4753

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 ctaaacaaca tggtaatattg ctttggttat gaatttagtc ctaatatgat gggcatccaa 120
 gagggatata ataaaaactt tcatatgaag tgcattgaat actaagagaa gtttgatact 180
 tgataattgt tttgagatat gaagatggtc agtggcggag ccaactcaag tttagagccg 240
 gggcaagatc taagtgtctgc caaattactt agtttctacc caaacaact tccacttcac 300
 ccaattttct ctactagagc ttcattggact tgcaccaagg gagccccggc aagtgcccc 360
 gctcgccagg tgctgtcacc gccactgaag atggtgatat taaagttgtg ctagttgagt 420
 aattgtgaat ttgagaaata cctgtggtaa agtttgtg 458

<210> 4754
 <211> 469
 <212> DNA
 <213> Triticum aestivum
 <223> unsure at all n locations
 <223> Clone ID: LIB104-001-Q1-E1-H11
 <400> 4754

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 tgaagagaaa actcattttg gcgaaaacaa aggttgcaaa agcagagatg gctttggcga 180
 aagttcagga atatctctct ccagcagagc ttccaacgga tctggaaact gttacagagc 240

aggagcgttt cctattccgc agaattggcc tgaaaatgaa ggcctttttg atgcttggca 300
ggcggaagt ttttgatggt actgtgcaaa acatgcactt ccattggaag catcgagaat 360
tggtcaaaat tgttgtgaag gggaagacct ttgaacaagt taaacatatt gctatctctc 420
tagaagctga gagtggaggc gtgctcattg cactcgacaa gacaacaaa 469

<210> 4755
<211> 462
<212> DNA
<213> Triticum aestivum
<223> Clone ID: LIB104-001-Q1-E1-H9
<400> 4755

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agtgcactag tagtagtaca cttgtatcat cttcagcaaa ctactcccta ttcccaagaa 180
attgcacgta tagggagagt tgaggcaaaa aacctgcttc agcagtctcc ctaaacccaa 240
aaaattatct cctcaaatag tggagagttg caaccctccc cataaatttt caatgcttgc 300
catgtcagtg cgccgcctcc attgaccgcc gcgccactgg accactgccg cctgctggaa 360
caccaccgct gccgcgggac ttctgtgctg ccgttgctgg aaatccgcgc cgccgccacc 420
tgccaccgca accttgacga aaagatgcaa atgagagaga tg 462

<210> 4756
<211> 370
<212> DNA
<213> Triticum aestivum
<223> Clone ID: LIB104-001-Q1-E2-A1
<400> 4756

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aaactgggca ttgagttcac ccccgatgaa ggatccttcg ccttcatcaa tgccatggag 180
gttctacctg tgtctggcac ctcaattttt gattcagtc acaagggtgga cggtcatggg 240
ttgaaaggcc cttttagcct ctacggcatc gggatcgaga ccatgtacag gctgtgtgtg 300

ggattcatcg atgtactggc taggaaagat gatccaggat tgtggaggag gtgggataaa 360
gatgaccatt 370

<210> 4757
<211> 429
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-001-Q1-E2-A4

<400> 4757

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gcttggtaaa ttggaagatt gcatacaatt gcttgtagac agcaaccgta tacctgaagc 120
tgcattaatg gcgcgttctt atcttccag caaagtttca gagattgtag caatttggag 180
aaaagacctc agcaaagtta atccaaaagc tgcagattct ctggcagatc ctgctgagta 240
tccaaattta tttgaagact ggcaggttgc acttactgta gagcagaatg ttgcttccca 300
gagggggcac tatccttctg cagatgagta cttgaaccat gctgagaagt cagacactac 360
tcttgtggaa gctttcaaaa ggatgcgggt cattgaagaa gaggaaccag tggaagcact 420
ggatgaaaa 429

<210> 4758
<211> 324
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-001-Q1-E2-A5

<400> 4758

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gacgacggcg atgtctcaca catgcttaca gacagcaacc gtgggacgta gactaccggc 120
ctcagccttc acgacacca catccgactt acaaagactg gctgagctag gagctcccaa 180
cacacactca atacgcccgg gtctgcagat tctcaggcag atcgagcaga gtaccccagt 240
aacgtgtgtg actggcaagt tccccttacg ctgtagcatc tgctgacatc ctacaggggc 300
agaccatcct tgcgcagatg agta 324

<210> 4759

<211> 423
 <212> DNA
 <213> Triticum aestivum

 <223> unsure at all n locations
 <223> Clone ID: LIB104-001-Q1-E2-A6

 <400> 4759

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 ttaaaccata acttagcatc accctttaac gagaaaggaa acaacttaag aatcaagtaa 120
 tagcgaattt tttccacatg agcaaataagg gtggctatat catccaattt agtaagatgt 180
 gccacaacag tttcagattc ataaccatag aaaggatcag attcaaccaa agtaatcaac 240
 ttaggatcga cagagaattc ataatcctta tcagtaacaa agataggtga agtagaaaac 300
 ttaggatcat accgcattct agcattcaaa gacttttctt tcagcttagc taaccgtttc 360
 ttaagatcat ctctatcatt acaagcanna gagtctctag cagtttcttc atccataata 420
 taa 423

<210> 4760
 <211> 423
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: LIB104-001-Q1-E2-A7

 <400> 4760

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 ggggtggtaga aaacgggtgt agggttgcag atcagcaacg caagctgcaa tccgcaagct 120
 gcagtggcag cgtccgaaag agatgcgcgg aatgtacata agtagtgcg ggcggtggaa 180
 cttttgtctg aagagatgat tttttcgtat gtaattgcag gatttgactc tcaaaaaaaaa 240
 aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaagaa gaacaaaaag 300
 aataaagcta aaaataaaaaa tccataagac atcaaa~~aa~~aac ttcaaaaaat gtcgccaaaa 360
 ttcacataag ggagccatca aataacgggg cccccaagg ggaaaaacct tgcgttacct 420
 aag 423

<210> 4761
 <211> 406

<212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-001-Q1-E2-A8
 <400> 4761
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 aacgagcgca agcacatcga cccgctgctg gagtgcctca aggagtggaa cggcgagccc 120
 ctgccgtctt gctgagcagc cgacgagcca aggtaacacc aaaggaaaag aaaacacgta 180
 cacacaaagt gaatatagaa gtggttcaag actgtgaagc gggaggttcc tggatatctt 240
 acgtttcatt gtacttagtt aagttgatac tactgttggt ttttctcgct gccgccatgc 300
 catgagcagg cgaggcaggc agcttctcaa acttgtgttg ttgtaacttg tatgatggga 360
 gcttaagtac attactttgt ttcataatac accgtgttat cgccat 406

<210> 4762
 <211> 382
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-001-Q1-E2-A9
 <400> 4762
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 gcgtttgggt ggcctacagt gcgtacgttt cggatattga tttcttcgtg gagtctagt 120
 ttcgtgcgtg tgtggttggg ggtagttggt tggttttggt agtgtgagtg cgtcgtgggt 180
 gccgtgtact cctgtgtgtg tgtcaagtgt tgccacctgc gattccattt tcattccgtg 240
 cgatgaataa attaagaagg ggtcttcttg acgcgtctag cgggcgcacg gccgcctagg 300
 atgcttagcg agcggcccg cacttcagat aatttcttgt ctctcctttt aactagaata 360
 gtcacttagt agtccctttt tc 382

<210> 4763
 <211> 465
 <212> DNA
 <213> Triticum aestivum
 <223> unsure at all n locations
 <223> Clone ID: LIB104-001-Q1-E2-B4

<400> 4763

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tgctagcctc tcctgtgcc cgcaacttcg ccggtaccat acacctacca tataccttcc 120

tgaaaatagc caccatacct acctattatg gcatttccat ggccattctg agatatattg 180

ccatgcaact ttccaccgtt ccgtttatat gacacacatt acttttgtca tattgctttt 240

tgcatgatca tgtagttcac atcgtatttg tggcaaggcc accatcataa ttttcataca 300

tgtcgctctt gattcattgc atatcatggt acacccccgg aggtattcat agagagtcac 360

atcttgttct agttttgagt tgtaaataca tagaagtgtg atgattttca ttattagagc 420

attgtcctag tgaggaaagg atgatggaga ctatgattcc cccac 465

<210> 4764

<211> 447

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-001-Q1-E2-B5

<400> 4764

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ccgctcccgt ctctgtctac tcttttagtta cttagtacta ctaccggtag tggttatccg 120

tctccatttt ttcaccatca tttttttaat cagaaacata gtactacagt acatgtttgt 180

atgtgtgttt gatttgaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaataaaaaa 240

aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa agaaacacaa aaagaggaaa aaaaaaaaaa 300

aaaaaaaaaa aaaaaagggg gcccccaaa ggggtcaaac ttaatttacg ctgaaaggca 360

agttaaaacc cctccaaagg ggtcccaaaa ttaaattcca ggggcgttct tttaaaacgt 420

tggaacgggg aaaaccccg ggtttcc 447

<210> 4765

<211> 233

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-001-Q1-E2-B7

<400> 4765

gtaccggacc agaattcccg ggtcgacggg gttccaaaaa aaaaaaaaaa aaaaaaaaaa 60
 aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 120
 ccaaaaaaaaaa aaaaaaaaaa aaaaaaaaaa agcgggcccgc ccaaaggat caaacctaac 180
 ttacccttgc atgcaacttc aaaccctcc aaaagtgcc ccaaatttca att 233

<210> 4766
 <211> 418
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-001-Q1-E2-B8
 <400> 4766

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 aagcagggtga gatgacatgg atagggacaa aggtaatact atgaaggaag atagtgaccc 120
 taatagtgca tccaaacggc gaaaaattaa gagagatcag tctgctttag aagctgggga 180
 atatgcacct tctgctccac agcctccgag ccttgaggct ggtaactcgc aatttgaaat 240
 acgagagaga gaaagaaagg gtgttatttc acagcatcgg ccgtcacatg ctgatgacct 300
 ccctaggatg catgccaagg attcaataag caagacaagt cgtagagaga ctgaccaaac 360
 gcatgataga gaacgggaag aggaaaagag gccaagaact gaagcaagaa gaaagcat 418

<210> 4767
 <211> 422
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-001-Q1-E2-C1
 <400> 4767

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 tccttgaaa gtgttgggat ggaaggcacc cgtggatagc attagccatg gaaagtgaag 120
 gtatatggtg gaaaaaggaa taaactttat tttctgcttg ggaacctcct atgatataac 180
 tagcatggaa ggtgttggga actctaagtc gttttcgctg gtgggaagga cacacctccc 240
 aaaatgtttt tatctctaag ttttttgctt tgagctctgg aacctctaca aatccgtact 300
 tcctctacg aagggccttt ctattacttt gtgaaatttt tattttttaa tttgagtctc 360

catcttctct tataaaagca ccaactttgg aggcactatg atcgtacttg agcattgtgt 420
gt 422

<210> 4768
<211> 432
<212> DNA
<213> Triticum aestivum

<223> unsure at all n locations
<223> Clone ID: LIB104-001-Q1-E2-C10

<400> 4768

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atccacgtcg gcgatggcga gtcggcgccg cgagaccgca gtgagcgcat ctgccaccct 120
gccgctcttc ctgtagccgg cgtgatgacg acgaagatga ccaccgtcgg gaggaccaag 180
accgagatcg tcggggccgt gacgggtcca ggaacggcag gggctggggg gagaggggtgc 240
gtcgcagcct ctcccgcgcc ccccgggacg acaaccgcga ccgtggtcga gagcagcaag 300
gagggtcgtga tggcggtcgg cgatgccatg aggaagtggc cccttcgctg ctgctacgtg 360
gtccgggtc ctccagcgtg gtggccgcac acgatgcgga gatggtgcca gtgctcctcg 420
gccgcctgcc cg 432

<210> 4769
<211> 457
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-001-Q1-E2-C5

<400> 4769

gtaccggacc agaattcccg ggtcgacggg tgtatttgat gcggcaataa aggtgggtact 60
tgcgccacca aaggcgaaga agaagaaaaa ggcgagagg ggggcttgct ccatcttggt 120
atctaatacat cggtagacaa agaacaaggg cgaagttgcc gccatgctat attattgtta 180
cgtcttgctt cagcggagct gcaactctcat ggtcgtcgtc cctccccctt accccaccct 240
aggttaccoca ccggcagctg cagcaaggtc tctttgtcga ggcatcgggc gatccatttg 300
tttgatttct cttcttctct ccttggtgatt atctcgtgtg actgacaagt cgtggcaatt 360
taggtaactt gcttagtaga cggtatttcc cgtgtttgag accccgtaaa aaaaaagtat 420

ctcgttggtta tctcgggttcc ataagtagag acatgat

457

<210> 4770
<211> 469
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-001-Q1-E2-C6

<400> 4770

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aaccatagca aataccgtga tggttctaaa taacctcaaa ataataaag tgaagcatga 180
gagactagaa atttcttcaa attaagtcac caccgtgctc taaaatatat aagtgaagca 240
ctagagcaaa aactatcaag ctcaaaagat ataagtgaag cacatagagt attctagcaa 300
attctaattct agtgggcttc tcccaaaagg tgtgtacagc agggatgatt gtggtaaact 360
aaaaatgaaa gactaatata atacatgatg ctccaagcaa aacacatatc atgtggtgaa 420
taaaaatata gctccaagta aagttaccaa tgaacgaaga cgacagagg 469

<210> 4771
<211> 316
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-001-Q1-E2-C7

<400> 4771

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atcattctag gaccaaattt gttagcatag cagataccgt gatgttctgg aatagtctca 120
gagtgggtata agtgaagcat gagagactat aaatttcttc aaattaagtc accagcgtgc 180
tctaaaatat ataagtgaag cactagagca cagactatca acgctcacga gatataagtg 240
aagcgcagag agtatgctag cagattctaa tctagtgggc ttcgccaga aggtgtgtac 300
agcagggatg attgtg 316

<210> 4772
<211> 412

<212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-001-Q1-E2-D10
 <400> 4772

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acgacctgga gtagtttagg aggatccag gcaggaggcc tgcgcctctt tcgatctgta  120
tcccagtttg tgctagcctt ctttaaggcaa acttgtttaa cttatgtctg tactcagata  180
ttgttgcttc cgctgactcg tctatgatcg agcacttgta ttcgagccct cgaggccctt  240
ggcttgattt atgatgcttg tatgacttat ttatgtttta gagttgtgtt gtgatatctt  300
cccgtagctc cctgatcttg atcgtacacg tttgcgtgcc tgattagtgt acgattgaat  360
ccggggcgctc acaggttggt atcagagccc actgcttgta ggaaccccc tt         412
  
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<210> 4773
 <211> 193
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-001-Q1-E2-D4
 <400> 4773

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aacatagatc atcactcttc tataatgaca cccaatactc tatgcagttt gccatcattt  120
taatacgtcc taaatgtgaa tatccctgta cttacacaac attatcttct ttcacacat  180
ttcccatttt tca                                     193
  
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<210> 4774
 <211> 393
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-001-Q1-E2-D5
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acaccagtc aatttaacca attttctgt gatctattta aagtttgcg tgagggtccga  180
  
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cgagcagaga tccggccggc gcgccatttg ttgtaattgt tgatgtaaac aggagttgcc 240
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 ctcacagtta taataagcag gcgcagtttg ccc 393

<210> 4775
 <211> 441
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-001-Q1-E2-D7

<400> 4775

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 cctggagtg cctgtatgtca agtatgattt tgatggcgct cagcagaagc tcgtcgagtgc 300
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<210> 4776
 <211> 463
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-001-Q1-E2-D8

<400> 4776

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 aacttggaa acagtatggt caacacaaat ataaataaat aatgagttca ttacagtacc 180
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 gtgttggtgaa gttttcaagt tttgggtaaa gatttgatgg actatggaat aaggagtggc 300

aaaagcctaa gcttggggat gaccatggca cccaagaca ttcaagaata gccaaaatcc 360
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<210> 4777
 <211> 442
 <212> DNA
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 <223> Clone ID: LIB104-001-Q1-E2-E5
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 agttgcgcat tgacagtgga cg 442

<210> 4778
 <211> 434
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-001-Q1-E2-F5
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 atatcgctgt tcac 434

<210> 4779
 <211> 377
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-001-Q1-E2-F6
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 atatgaagtg cattgaatac taagagaagt ttgatacttg ataattgttt tgagatatga 180
 agatggtcag tggcggagcc aactcaagtt tagagccggg gcaagatcta agtgctgcca 240
 aattacttag tttctacca aataaacttc gacttcaccc aattttctcg actagagctt 300
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 cactgaagat ggtgatc 377

<210> 4780
 <211> 417
 <212> DNA
 <213> Triticum aestivum
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 <400> 4780

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 atggtggatg gggtgagagt catctttcat ccacaaccaa ggcatacacg aacctagacg 240
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 aggccgaacg agatccgtct cttttgcacg aagctgcaag acttaccatg agcatgcaac 360
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<210> 4781
 <211> 418
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-001-Q1-E2-G5

<400> 4781

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 ttcatgagaa tatgatgctg cctaaattgg atacatttgt tttgcttaca aatgaagggc 180
 ctgacttgga gaaggatgaa cattggagca agaacaagca tggagatgat ggcattgtgca 240
 aggggaacaa gaacggagtt acaagtgatg atttcaggac tttgaagcca ccataatggg 300
 tgcattgaagc cttggacgaa atatacaaga tgccacttca taaatttcgt tccgagggcta 360
 ttttaggtgc tgcgtcacct tattattggg ccaggcccat gtaatttcga aatacata 418

<210> 4782
 <211> 443
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-001-Q1-E2-G6

<400> 4782

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 gtccattact ccgacaaata ctaagagaag tttgatactt gatgattgtt ttgagatatg 180
 aggatggtaa tattagagtc gtgctagttg agtagttgtg aatttgagaa atgcttgtgt 240
 tgaagtgtgc aagtcccgta gcatgcacgt atggtaaacg ttgtgtaaca aaaatgaaac 300
 atgaggtgtt atttgattgt cctccttatg agtggcggtc ggggacgagc gatgggtctt 360
 tctaccaat ctatccccct aggagcatgc gcgtagtact ttggtttttg atggattgta 420
 gatttttgca ataagtatat gag 443

<210> 4783
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<223> Clone ID: LIB104-001-Q1-E2-G7

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gttcatgaga atatgatgct gcctaaattg gatacatttg ttttgcttac aaatgaaggg 180
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aaggggaaca agaacggagt tacaagtgat gatttcagga ctttgaagcc accataatgg 300
gtgcatgaag ccttggacga aatatacaag atgccacttc ataaatttcg ttccgaggct 360
attttaggtg ctgcgtcacc ttattattgg gccaggccca tgtaatttcg aaatacataa 420
g 421

<210> 4784

<211> 394

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-002-Q1-E1-A10

<400> 4784

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tcctagaccg aagcaacagc tttgcctttg ctaacaacta gtaaataaaa tttggacaga 180
aaatcccttt tggaggcaga gtcocatgga gaccggtttt tgaaaaattc agagtccata 240
tttttacatg tcaaaaactg agataatata tacatatgaa cgcataatgc ataagtgtgt 300
aaattttcac gatgaaataa gttgatacga ggagtgtgcc aaaaaacaca gatgatgaca 360
ggttaacca tgaaacggtt cagcctttca ggcc 394

<210> 4785

<211> 439

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-002-Q1-E1-A11

<400> 4785

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 caacaagcag caacaacggc aacagcaaca acaacaacaa catcaacagc aacaacaaca 180
 acagcaacaa caacaacaac aacaacaaca acaacaacaa caacaacaac aacaacaaca 240
 gcaacagcaa cagcaacaac agcaacaaca gcaacaacaa caacaacaac aacatcaaca 300
 acagcaacaa cagcaacaac agcaacaaca acaacaacat taacggcaac aacagcaaca 360
 acagcaacag caacagcagc aacagcaaca acaacaacag caagcagcaa caagagcaac 420
 gacaacaaca gcagcaacg 439

<210> 4786
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 <213> Triticum aestivum
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 aaacatagca aagacgtcat caaaccgcag gacgatcgta ccccgatgt cgccatccac 180
 aaagcccttg ccctctggca ccttggccac gaaaaccggg tatgccacat ccttctctct 240
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 acccttctta atctttcctt tgcgtgcctt c 451

<210> 4787
 <211> 434
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-002-Q1-E1-A7
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 cgggtccaaa aagttcgaat ccgcctccag tacgcctcgg gcctcctttt aaagccaaag 180
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 acgacaagga agctcgtcgc atccgccgcc gcttcgtctc gctctgacgc gcgtccagcc 360
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 atggagatct gcat 434

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 <212> DNA
 <213> Triticum aestivum
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 <400> 4788

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 tgatatcaac ctgtgtctac aaactgaggt actcagca 98

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 <223> Clone ID: LIB104-002-Q1-E1-A9
 <400> 4789

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 gcaaggggaa caagaacgga gttacaagtg atgatttcag gactttgaag ccaccataat 180
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 ctattttagg tgttgctgca ccttattatt gggccaggcc catgtaattt cgaaatacat 300
 aagtataggc tatttttaga gtccgtatgt gtggggaaac aagagatagg gttgatttcg 360
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<210> 4790
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 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: LIB104-002-Q1-E1-B2

 <400> 4790

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 taactaagac caatagttac agtcactctg aaggcatgaa tgctagagca ggtctaggtt 180
 tgaaggtctc tgcgacgtat taaattgatt tgggataata tatagggtttt tcatggcaaa 240
 taaatactgc ctacgcttga ggttaatcga ggggtgtcca ttcacaatga cagtaagggc 300
 agtagggcat acagcgtgtt gt 322

<210> 4791
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 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: LIB104-002-Q1-E1-B4

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 aagaaatcaa acagacccaa ctgctcaact acaaatttct taggattaat ctgtcgcaca 180
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 caacttaaga ttactgaaaa ctgcccaaaa caataatatg actgaattgt tagatggaac 300
 caaaaaggaa attgtattta tcaagtttat taatctgcat gaactaagac agtctccgat 360
 attcaagaat gtagtggctc ttgattttta atcagagata acaaatgacc agatgcgtac 420
 aatagagggga aggagaagat actcacgtgt gtagecgcgt tgaatttgct gc 472

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 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-002-Q1-E1-B5

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acaaatttct taggattaat ctgtcgaca catgcacctc ataccgaggt taaataattc 180
aaaatgattg acgaagctaa aatctaaaga caacttaaga ttactgaaaa ctgcccaaaa 240
caataatatg actgaattgt tagatggaac caaaaaggaa attgtattta tcaagtttat 300
taatctgcat gaactaagac agtctccgat attcaagaat gtagtggctc ttgattttta 360
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<210> 4793

<211> 469

<212> DNA

<213> Triticum aestivum

<223> unsure at all n locations

<223> Clone ID: LIB104-002-Q1-E1-C1

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ctcatgcttc acttatatta ttttttagagt ctttagaaca gcatggtaat ttgcttgggt 360
tataaaatta gtcctactat gatgggcatt caagatgggt ataataaaaa ctttcatgta 420
gagtgcattg aatactatga aaagtttgat acttgatgat tgttttgag 469

<210> 4794

<211> 117

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-002-Q1-E1-C11

<400> 4794

taccggtcag gaattcccgg gtcgacggga ttgatacccg aagtcaagat accaacctaa 60
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<210> 4795

<211> 413

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-002-Q1-E1-C3

<400> 4795

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gaaatcaaac agaccaact gctcaactac aaatttctta ggaggaatct gtcgcacaca 180
tgcacctcat accgaggta aataattcaa aatgattgac gaagctaaaa tctaaagaca 240
acttaagatt actgaaaact gcccaaaaca ataatatgac tgaattgtta gatggaacca 300
aaaaggaaat tgtatttatc aagtttatta atctgcatga actaagacag tctccgatat 360
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<210> 4796

<211> 471

<212> DNA

<213> Triticum aestivum

<223> unsure at all n locations

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agagatctac ccagctgaag aagctgatga atgcctactg cgaccgccag tctgtggata 180
tgaaagctat tgcattcctg tttgacggtc gcaggctccg tgccgagcag acccctgatg 240
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tccctccacg cgctagaag aagccgttga gagtcttctg tgttgctcgg ctacaagact 360
ctgatccatc attagagagc acatgaacga atgaaagtct aaaaagaact tgtgaggctc 420

tggccccaag ccatagctga aggacattan gggaggtttt gtttagtgcc g

471

<210> 4797

<211> 397

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-002-Q1-E1-C9

<400> 4797

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aacaggagcc ctccggcctg gactgatcgt gtttccgagc gtagtcgcgg taggcccttc 120
caagtacaca ggcgaggagg ctgccataag tcgtcccttg aggtcttctt tgcttcttca 180
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gggccatatt tgtaatggcc catgaacgac tttaacgcat gggggagtaa ctgccaatc 300
actcttccca ccacgttctt ctcccctacc acgtatgttg catgcattga atggggtaag 360
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<210> 4798

<211> 458

<212> DNA

<213> Triticum aestivum

<223> unsure at all n locations

<223> Clone ID: LIB104-002-Q1-E1-D4

<400> 4798

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tcaagttttg agtaaagctt ttatggacta tggaataagg agtggcaaga gcctaaactt 180
ggggatgacc atggcacccc aagatattca agattagcca agatcctaag cttggggatg 240
ccccgggaag gcatcccttg tttcgtcttc gttcattggt aactttactt ggagctatat 300
ttttattcgc cacatgatat gtattttgct tggagcgggt tgtattatat tagtctttgc 360
tttttagttt accacaatca tccttgctgt acacacctt tgggagaagc ctatttgatt 420
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<210> 4799
 <211> 403
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-002-Q1-E1-D6

<400> 4799

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 agaaggacaa gaagaagaag aaggacaaga agcacggcga gggccacaag gacgacgacc 180
 caccacaaca ccatcatcgc atcccattag catcgccagt ttccttgagg agaagtagct 240
 agaaacagca gcgccatggc cggcatcatg cacaagatcg aggagaagct ccacatgggc 300
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 aatgacggcg agcacaagaa ggacggggag cacaaggagg gca 403

<210> 4800
 <211> 459
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-002-Q1-E1-D9

<400> 4800

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 tatatggccc atccacaaca caaaacaac ttcgcaatcc ccacatggac caaacatcca 240
 accaacagac caccggcacc ctctccctgc acaaagtcca accccccttc ccccaaaaaa 300
 tcacatccac cgcccccca agcacacaat attattacag aaataatgga ataataca 360
 tagaaaggaa ctaaaagagg aagagaagaa attgctacct tcccgcagca gatccacaac 420
 accaaaacag cctcgcaatg cccacatggg aaaaacact 459

<210> 4801
 <211> 442
 <212> DNA

[illegible][illegible][illegible][illegible][illegible][illegible][illegible][illegible][illegible][illegible][illegible]

Figure 6 shows the effect of the initial concentration of the monomer on the polymerization rate. The reaction rate increases with increasing initial concentration of the monomer. This is due to the fact that the higher the initial concentration of the monomer, the more active species are present in the system.

[illegible][illegible]

Figure 6 shows the effect of the concentration of the monomer on the polymerization rate. The reaction rate increases with increasing monomer concentration. This is because the higher the monomer concentration, the more active sites are available for the reaction.

Figure 6 shows the effect of the concentration of the monomer on the polymerization rate. The reaction rate increases with increasing monomer concentration. This is because the higher the monomer concentration, the more active sites are available for the reaction.

<223> Clone ID: LIB104-002-Q1-E1-F2

<400> 4803

tcgacgggta cgcaattgct ctagtacttc cattatatct tttagagcat ggcgggtggtt 60
ataaatagtt gcactctcat gcttcactta tatctttttg agagttgata atagtaatga 120
caattagtgt gggttataaa tttggtccta atgtgatagg tattcaagtg ggatataata 180
caaactttca tgtagatcac tgaaaatgat aagtttgatt ccttgcaata gtttgcgata 240
taaatgtggt aatatgcggg ttgtgctagt gagtaattgt ggttttagtaa gaatattggt 300
gttaacgttc gtgattcccc gaacatgcac gtatggcttc tcgttatgct atgaagtttc 360
atcatgattt aata 374

<210> 4804

<211> 433

<212> DNA

<213> Triticum aestivum

<223> unsure at all n locations

<223> Clone ID: LIB104-002-Q1-E1-F3

<400> 4804

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gcaggaaatc agggaatgca atcacctac agatccagtt cgtttcctgc acctcagtat 120
gcactgcaga gagagaatgt ttttctgag agacctgac aaccggaatg catatactac 180
ataaagactg gagattgtaa atttggtgca gtttgcaaat tccatcatcc ccgtgtgcgt 240
tcacagcctc cccagactg tatcttgagc ccaatgggtc ttccattacg cccaggggaa 300
gagctctgca agttctattc tcgctatggc atctgcaagt tcggcgtaaa ctgcaagtcc 360
gaccacccga tggcggtcc gatgggggtc tacgcgtacg gctactccgc ctggcgctcg 420
cccaacgcgc cca 433

<210> 4805

<211> 451

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-002-Q1-E1-F4

ggtccagaat tcccgggtcg acgggactg agagagcttc cgaagaaggc tggccaacag 60
 ttagtaatat tatctcaggt cctaattgat gatattaatg ttggttatga aaggctggct 120
 gaactccagg taaagaaggt gaatggtgtt gaggttgaga atttgaagca tttgtgcagt 180
 atcgtggaga actgcactga agaaaacttg agaattgatt tggacgatga gcgggagatc 240
 gtcctgaaat ttcagaacgc gaggcttgcc acgtctcgga tcctcaagcg gcacaggatt 300
 ccatcagcca tgtcgagtga ccttgtcgat gaacaagcga gcaaagggtga gactgacgcg 360
 tcatgcacaa actgacacat tttcgta 387

<210> 4808
 <211> 457
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-002-Q1-E1-G3

<400> 4808

ggtacgcctg ctggtaccgg ctcgaaattc ccaggctcgac gggttcattg tgctggacga 60
 agatcggcgc ttcagcatta agctcgagga gaccttcgat gttcatacgg tacgcaaccg 120
 acgataatag tttttttcgt aattactcat gacttcaact attttaatca tgacaatatt 180
 tttcatcttt tccaattcga ctagcttata ccatgctttg caagacgcta tgtcttggag 240
 aggatggggt ttgaagacca tgaaagtttc gaaaccaaag aaattatcct aagtacccat 300
 catggtgtgg attttcaa ataaagtgtac aatgctcaga gtgtaacca ttttggttgc 360
 aaaaattggg aagcactttg caagatgtat ggttttgatg agggatatgct tgttaccatg 420
 gatcttggtg atcctacaat cgagcaagag agaccta 457

<210> 4809
 <211> 319
 <212> DNA
 <213> Triticum aestivum

<223> unsure at all n locations
 <223> Clone ID: LIB104-002-Q1-E1-G4

<400> 4809

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 tttgagccaa aaaaattcac cgtttgtcaa aaaaaatatc tttcttgccg aaaaagggga 120

tgcacccaaa tcaaaacaca tggatgggct cctagcctag tggcaagagc gcggtgatgt 180
ctctcggccg actcggggtt gaactgccta ggcaagcact tggtaaagtt acgttacctg 240
atctctgagt gtgggcactc catgatggac aacatattgt gcgtccacga tgccaaattg 300
ctcttcaggg tcttgccag 319

<210> 4810
<211> 455
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-002-Q1-E1-G5

<400> 4810

ggccagaat tcccgggtcg acgggctatt tgaaactgct cgacgggagc ttaatcttcc 60
ttctgcta atgaattgatta gttctcagtc aaacaatgag gcaaatggaa atctggaaag 120
cacacaggaa gtgcagggtga acccaacgag cttatctcaa tacagggaca tccagagaaa 180
gattgttgag tttatcagaa agagatacca tattctggaa aaatgcttgg acattgaata 240
tgccgtgata aaaacaaata ctctgttcc tgatgatctt actgaacaaa atgttcttat 300
gggacatagc ccagctgttc cagatatcag tgaagtgttg agagaacttc cccctcttgt 360
accaatttct gccaaagaag tggcttctga tggctcaact gaccaggcac acctttccca 420
tctttacaac aagatgtgcg gtgtgcttga ggaca 455

<210> 4811
<211> 432
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-002-Q1-E1-G7

<400> 4811

ggccagaat tcccgggtcg acggggtcgc aaacaagttg gggtaggcta tctcaagaca 60
tagaaagcca agaagaaatt tgtattttgg gttttagatt tgcaaattgt ggtatagcta 120
tcgctaccta gaatcgatag aagctctgtt tttttcaata aagcccagaa agccatactt 180
aactcattc tccagcaa atactccactg gtaagctatt ccttcgctag actcctttga 240
agcatcggaa gtaaacacaa gcaacctgtg gttctttgca accagatctg tgacgggtggg 300

ccactcctgc ccactcgttg gcatttctga gatagggtag caatacttca tcaagtcagc 360
 agcagtaaac aatttgctca atctcatcgg ggcattgtacg taatcctoga tgaatattgt 420
 aacaatctcc gt 432

<210> 4812
 <211> 387
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-002-Q1-E1-G8
 <400> 4812

ggtccaggac tcccgggtcg acggagagca caagaaggac ggcgagcaca agaaggacgg 60
 ggagcacaag gaaggcatga tggagaagat caaggacaag attagcggcg acggccacgg 120
 ctacggcaag aaggacggcg accacaagga gaagaaagac aagaagaaga agaaggacaa 180
 gaagcacggc gatggccaca aagacgacga ctggcaccgc agcagcagca acgacagcga 240
 cagcgactga gccaaactccc gccgcgctcc ggcaacagcg ttcactgtat gcgagatcta 300
 tgaacgcttg tgaaaaatgt ggcatacata tatgtttcac agtttttagc gtctgggtacc 360
 atatgtatgt tatgcgtgac atgtctc 387

<210> 4813
 <211> 393
 <212> DNA
 <213> Triticum aestivum
 <223> unsure at all n locations
 <223> Clone ID: LIB104-002-Q1-E1-H1
 <400> 4813

acgcctgctt gtaccggccc taaattcncg agtcgacggg tacggattat ccggaattgt 60
 tgtttgttct tccggtctca tttaaacttg cctagttagg tagtttcatt atgcttcacc 120
 ccttgccatg ttttaacaaca tttaatattg atcagtagca ataccgagag agaactaact 180
 aattgttgtg gtgtttcgtc aatatgcaac ttgttacata ttgagctcca cttaacttta 240
 gcgttgcttg tgcactttgc catgccatgc ctcatcacac tggacatgca tcatacttga 300
 ttgtgcatca tgacatgatt atgcctgtgt gtttaccatg ttgtttgctt cattccgggt 360

tgcttctctc gttagcttcg gtttcattcc gga

393

<210> 4814

<211> 226

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-002-Q1-E1-H2

<400> 4814

acgcctgccg ggtacggccc gaaattccca ggtcgacggg ttttgctcat gtttagtaat 60

aaataattta tctagcctct gttttggttg tgttttttgt gtttaattag tgtttgtgcc 120

aagtagaacc gttggaaga cttggggaaa gtctttttga tcttgctgta aaaaacagaa 180

actttagcgc tcacgagaat ctatgccatt tttatttgga aggtga 226

<210> 4815

<211> 359

<212> DNA

<213> Triticum aestivum

<223> unsure at all n locations

<223> Clone ID: LIB104-002-Q1-E1-H4

<400> 4815

cgcctgccgg taccgctcct aaattcncag gtcgacgggg gtagtcgagt gaatcctcac 60

aatcgcaaca ttaccggaac taagaagcaa caccggaaag aaacaaacaa tatggtaaata 120

gcacaagcat aaacatggca tgatgcacaa acaagtatga tgcattgtccg gtttaatgag 180

gcatggcatg gcaaagtga acaacaaca ctacaaatta agtggagctc aatatgcaac 240

gagttgcata ttgacaaaac ttcacaacat ttatttagtt tgctctcttt taagtacgca 300

ataatattaa atgttggtta acatgggaag acggaagca agagagaact acctatcta 359

<210> 4816

<211> 267

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-002-Q1-E1-H9

<400> 4816

taccggtcct atattcccgg gtccacggga agcgaccaag gacgatagac aggggtgctgt 60

actctcctcg ctaaactcca ctgaagcttg ctgatctcca caaccttaca cgggtctaca 120
 aaacagacct tcccacagtg ccaagcaatg caccaccaat gatggcttca tctgttacgg 180
 aagcgtccta caagggcctc ctccacaatg gcttccagaa caattaaacc gttgttcaca 240
 ccttccaatc ggatgggtaa tcaatcc 267

<210> 4817
 <211> 387
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-002-Q1-E2-A9
 <400> 4817

ccccgggtcga cgggttgat acatttggtt tgcttacaaa tgaagggcct agcttggaga 60
 aagatgaaca ttggagcaag aacaagcatg gagatgatgg catgcgcaag gggaacaaga 120
 acggagttac aagtgatgat ttcaggactt tgaagccacc ataatgggtg catgaagcct 180
 tggacgaaat atacaagatg ccacttcata aatttcgtcc cgaggctatt ttaggtgttg 240
 cgtcacctta ttattgggcc aggcccatgt aatttcgaaa tacataatta gaggctattt 300
 ttacagtccg tatgtgtggg gaaacaaaag atatggttga tttcggaccc ctccacgagg 360
 ggccactaaa ttccccctc ttctctc 387

<210> 4818
 <211> 403
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-002-Q1-E2-B2
 <400> 4818

cgcctgccag taccggtcct aaattcacgg gtcgacgggc actagaggat actgccgcta 60
 tctcaagaag atctactcgg tctaagcttc tttttgcggt gtgtgtgtct gacacagctg 120
 aattttgggt taacgatcaa gtctaacgat gaccaatagt taaagtcact ctgaagtcac 180
 taaagctatg agcaggctag gtttgcaggt ctctgcgaag tactaattag gtttgggata 240
 agctagtgat tgatcatggc aaagagatcg atgctagcct taggtataat catgccgtgt 300
 cctttcacac tgatagaagg ggcagtagag aatatagcgt attgttggtg tccaggactc 360

tgatataggg ttattaacca aatgcatgaa tgtaactctg tac

403

<210> 4819

<211> 419

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-002-Q1-E2-B5

<400> 4819

attccccgggt cgacgggggtc tcaactgggtcc atatctcttt ctttagcaac attgaaatcc 60

tcttgaacct ttagggaatg ccgctgcagt ctactaaaga aatcaaacag acccaactgc 120

tcaactacaa atttcttagg attaactctgt cgacacatg cacctcatac cgagggttaa 180

taattcaaaa tgattgacga agctaaaatc taaagacaac ttaagattac tgaaaactgc 240

ccaaaacaat aatatgactg aattgttaga tggaacccaa aaggaaattg tatttatcaa 300

gtttattaat ctgcatgaac taagacagtc tccgatattc aagaatgtag tggctcttga 360

tttttaatca gagatacaa atgaccagat gcgtacaata gagggaagga gaagatact 419

<210> 4820

<211> 451

<212> DNA

<213> Triticum aestivum

<223> unsure at all n locations

<223> Clone ID: LIB104-002-Q1-E2-B6

<400> 4820

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actttctcaa aataatcata acatgatatt acaaaatggg atctcgctag ccctttctaa 120

gaccgcaaaa cataaatgca gagcaccttt aaagatcaag gactgactaa acattgtgat 180

tcatggtaaa agagatccag tcaagtcata ccaaatan acaaaagtaa tgaatcaaaa 240

taacagtgtt ctctcaagcg ggtgctttta ataagaaggg tgatgactca acatagaagt 300

aaatagatac gccctttgta gagggaagca gggatttgta gaggtgccag agctcgattt 360

tgaaatacag atagaataac attttgagcg gcatactttc gctgtcaatg caacaactat 420

gagatggctg tatcttccat actacatgca t 451

<210> 4821
 <211> 152
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: LIB104-002-Q1-E2-C10

 <400> 4821

ctatagtgag tcgtattagt cgcagcagca tgagccctcg ggcttgggaat gatccagttt 60
 ccgagcgtagc tcgcggtagg ctcttccaag tacagacgcc aggaggctgc gataggctcg 120
 cgcttgagggt catcggtgcg tcgtcataat ct 152

<210> 4822
 <211> 70
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: LIB104-002-Q1-E2-C6

 <400> 4822

ggggcaccct atagtgagtc gtattacgtt ctgctgcttg caggcttcgt agaagactcc 60
 gcttgggtgc 70

<210> 4823
 <211> 446
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: LIB104-002-Q1-E2-C8

 <400> 4823

gtacagggtcc taaattcccg ggctgacggg tcagggaac acactagggg tttgttgac 60
 caacaggagc cctcgggcct ggactgatcg tgtttccgag cgtagtcgag gtaggcctt 120
 ccaagtacac aggcgaggag gctgccataa gtcgtccctt gaggtcttct ttgcttcttc 180
 ataatctgag cttggatcag tttctggtct tcccgatcat cagcaacgc caattgtagt 240
 ggggccatat ttgtaatggc ccatgaacga cttaacgca tgggggagta actgccaatt 300
 cactcttccc accacgttct tctccctac cacgtatggt gcatgcattg agtggggtaa 360
 gtaaaggaag cgcgtggtgc gggagagtgt caacgcaagg gcctggcctt ctgcattgg 420

ttgagaagga cgccggtcac ccatcg

446

<210> 4824

<211> 452

<212> DNA

<213> Triticum aestivum

<223> unsure at all n locations

<223> Clone ID: LIB104-002-Q1-E2-C9

<400> 4824

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aacaggagcc ctcgggcctg gactgatcgt gtttccgagc gtagtcgcgg taggcccttc 120

caagtacaca ggcgaggagg ctgccataag tcgtcccttg aggtcttctt tgcttcttca 180

taatctgagc ttggatcagt ttctggctt cccgtgcatc acgcaacgcc aattgtagtg 240

gggccatatt tgtaatggcc catgaacgac tttaacgcat gggggagtaa ctgccaattc 300

actcttccca ccacgttctt ctcccctacc acgtatgttg catgcattga gtggggtaag 360

taaaggaggc gcgtggtgcg ggagagtgtc aacgcaaggg cctggccttc tcgcattggt 420

tgagaaggac ngccgtcacc catcgacgga tt 452

<210> 4825

<211> 445

<212> DNA

<213> Triticum aestivum

<223> unsure at all n locations

<223> Clone ID: LIB104-002-Q1-E2-D10

<400> 4825

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tctatggcta cagaggaaag agcattaagt ctgccctcat cggtaggttct agcctgacat 120

tcacatctgc cattcaggac gttggcggtg aactaccac agtggaccat ggcaaagcct 180

accatgcata cacaacggaa aagaagcccg agcctgcgca ttgatcaagg ttgtctactt 240

gtagcacaaa tcatgcaaac cagctcgggt aatttttgag ctgatgtgtg ctgttatgtc 300

tgttttgcg aagcacctag ttcatcttgc aaactgtaat aacttgtttt gctcgacggc 360

aatacaacat acctggaata aatatcttgc tttactttgc ttcacgaatt ggtacgatca 420

taatcacatg tgacacaata ttgtt

445

<210> 4826

<211> 423

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-002-Q1-E2-D4

<400> 4826

gtccgaaatt cacgggtcga cgggcagtag cttatgtgga gggtttgttt tctttcacta 60

acggagctta taagatttca tgttgagttt tgtgtgtgga agttctcaag ttttgagtaa 120

agcttttatg gactatggaa taaggagtgg caagagccta aacttgggga tgaccatggc 180

acccaagat attcaagatt agccaagatc ctaagcttgg ggatgccccg ggaaggcatc 240

ccctgtttcg tcttcgttca ttggtaactt tacttggagc tatattttta ttcgccacat 300

gatatgtatt ttgcttggag cgggtgtgat tatattaatc tttgcttttt agtttaccac 360

agtcacccct gctgtacaca ccttttggga gaagcctatt tgattagaat ttaattgttt 420

ttt 423

<210> 4827

<211> 411

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-002-Q1-E2-D5

<400> 4827

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ccggacgcca tcatgatcct gacgggtgaag cgcgacaaca tctgcagctt catctcggag 120

accaaccccg ggcacgtgag gtcgtgggag accaaggaca gccagctgac gatggtggcg 180

gacgacctga agccgcgggc ggtgctgacg tgcccggaga agaagatgat ccagcaggtg 240

gtgttcgcca gctacgggaa cccgctgggg atctgcggca actacacgtt tggcaactgc 300

cacacgcca aggccaagga gattgtggag aaggcgtgag tggggaagag gagctgcgtg 360

ctggccgtgt cgcacgaggt gtacggcggg gacctcaact gcccggggca c 411

<210> 4828

<211> 428
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-002-Q1-E2-D6
 <400> 4828

gtaccggtcc taaattcccg ggtcgacggg gagcacaag agggcatgat ggagaagatc 60
 aaggacaaga tcagcggcga cggccacggc gacggcaaga aggacggcga gcacaaggag 120
 aagaaggaca agaagaagaa gaaggacaag aagcacggcg agggccacaa ggacgacgac 180
 ccaccacaac accatcatcg catcccatta gcatcgccag tttccttgga gagaagtagc 240
 tagaaacagc agcgccatgg cgggcatcat gcacaagatc gaggagaagc tccacatggg 300
 cggcggcagc gacgagcaca agaaggacga ggagcacaag aagaaggacg gggagcacia 360
 gaaggacggc gagcacaaga aggacgggga gcacaaggag ggcattgatgg agaagatcaa 420
 ggacaaga 428

<210> 4829
 <211> 435
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-002-Q1-E2-D7
 <400> 4829

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 ggtgtatcca aaccccgatga tatgatacgc tctatcacac ataagcctct ttatatcttc 120
 ctcaaaacag gcaccatacc tacctattat ggcatttcca tagccattcc gagatatatt 180
 gccatgcaac tttccaccgt tccgtttatt atgacacgct ccatcattgt catattgctt 240
 tacatgatca tgtagttgac atcgatatttg tggcaaagcc accttcataa ttctttcata 300
 catgtcactc ttgattcatt gcacatcccg gtacaccgcc ggaggcattc acatagattc 360
 atattttgtt ctaagtatcg agttgtaatt cgtgagttgt aagtacataa tagtgtgatg 420
 attttcatta ttaga 435

<210> 4830
 <211> 441
 <212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-002-Q1-E2-E1

<400> 4830

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acaatcatcc ttgctgtaca caccttttga gagagccata catgaattaa aatttgatag 120
aatactctat gtgcttcact tacatctttt gagctaagta gttttgctct atgtgcttca 180
cttatatctt ttgagctaga taattttgct ccatgtgctt cacttatatc ttttgagcat 240
tataattttg ctctatgttc ttcacttaga tcttttagag cacggtggtg gatttgtttt 300
aaagaaacta ttgatctctc atgcttcact taaattattt tgagagtctc ttaatagcat 360
ggtaatttgc ttaataataa tatgcttggt attcaagatt tgtgaaactt tcttttgagt 420
gtgttgaata ctaaggaaag a 441

<210> 4831

<211> 446

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-002-Q1-E2-E10

<400> 4831

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gggtgtgtgc atgttggggg gcaaagaagc acaagcgaga gtggtcgccg tataaccttg 120
gatggggatg aattgtgtgc tcggggagtg tgtgtgtgtg tgttgtgtc cgtgtgtctc 180
tgtgtgtgtg tgtcagatat tgagagatca caaacctaag gagagaaatg ggtattcacg 240
aagagattgt gcgggccttg aggtgggcat gggccggtta aggggtgtcaa aatgtgcccc 300
ttgatgcatg tgttgcatgc aaccgtgcaa gggatggacg aatcgagaga tatggttgtt 360
gtgttacgga tgctcctctc tctctctctc tctctctatc tctctctctc tctctctcgc 420
tctctcacac acacacacac atgtac 446

<210> 4832

<211> 453

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-002-Q1-E2-E5

<400> 4832

cctgcagtac aggtcctaaa ttcccgggtc gaccgtgacg gcaccttcac ctacggcggc 60
tactccagca tgggtggtggt gcacgagcgc ttcgtggtcc ggttcccggga cgccatgccg 120
ctggacaagg gcgcgcccct gctgtgcgcc ggcatcaccg tgtacagccc catgaagtac 180
cacgggctga acgctcccgg gatgcacctc ggcgtgctgg gactgggcgg gctgggccac 240
gtcgccgtca agttcggcaa ggccttcggg atgaaggatga cagcgatcag ctcgtcgcca 300
gggaagaagc aagaggccct cgaaaggctt ggcgccgacg ccttcgttgt caacaagaac 360
gccgacgaga tgaaggctgc gattagcacc atggatggca tcataaacac cgtgtctgca 420
aacatcccca tgggccctct cttccggctg ctc 453

<210> 4833

<211> 418

<212> DNA

<213> Triticum aestivum

<223> unsure at all n locations

<223> Clone ID: LIB104-002-Q1-E2-F1

<400> 4833

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gtgaaattac aaatgtgatt tcaacacca ttgcaacgca cgaggccttt tgctaataat 120
aataaatatg ataataataa taatataata ctcttcccat tcctaaatat aagtcttttt 180
agagatttca acacagaata catacgaagc aaaatgagtg aatctacaca ctaaaatatg 240
tccatataca tccgttatgt gactataaat taagaaatat ctaaaaagac ttatatttag 300
aaacataggg agtataaagc aaaagcttgc tgattgttag gttcatatan gttggctagt 360
attactacaa atgcctcacg caactgcctc ctccccaaa agtccaaagt ttctttgt 418

<210> 4834

<211> 409

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-002-Q1-E2-F10

<400> 4834

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 tgatgggata gcgtgcgatt caaactcgat tttatcctac tgacatcgag ttcaatgtca 180
 gtgggtatag aatacgtcgc agtttgatcg actaccatac gcgtgtgatg cgcagggatt 240
 tggaaagtgc aactgagatg tgaccgtcca taccatagac acaatatcgt agtggctctc 300
 atttcgtgga atcgagagga atgttggacg aggctcgtta aatagccact gatgctgaag 360
 atcactttga attcgtgtg cagcgtggac aactacaaat cgcaaacgc 409

<210> 4835
 <211> 421
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-002-Q1-E2-F5
 <400> 4835

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 gtgtgtcccc cggcgtgagc ccgtggttgc gttcgtggag tgaaggagct gcatgcgcag 120
 agccgttgcg atctgttga gtcaggtgcg atgtgcgcgc ggctggaggg agttagttagc 180
 aagctagcta gatggttggc cgggtcatgc tagtgcatgc atgggctagc ccggcgggtc 240
 atgtggtcat gcatggatat ggatcgtgca tgtagtgggt agcttagtgc gtgagttagt 300
 tgccgggtgt gcaggccgtg tgggtgtgtg gcacgggtat aaaaaccct cctccatgta 360
 ctgatcgagt tgagccgtg tgtagccatg tagccactgt aaggaagaaa aggattgggg 420
 c 421

<210> 4836
 <211> 417
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-002-Q1-E2-F6
 <400> 4836

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atgtaacata ggcaaatagc ctgcctgaag agtgagggag agaaaacctg catagatttt 180
gttctggcgt ttttgtgtgt gtttctagtgt attgtttggg tttattttcc gcgcttatgg 240
atgtacatta caggtatata agacagcata gtgatgatgt cttcttcatg gttatggaag 300
tgaaagtaat gttatggaag tgaaagtaat ggtatgaatg ctgtcttcat ggttataaga 360
cagcatagtgt aaaaataaaa gggaaaggga aagaaaaaaa aaaaagcgg ccgctct 417

<210> 4837
<211> 331
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-002-Q1-E2-F7

<400> 4837

ttcccgggtc gacggggcag tgcgtgccag gatgctgatt gtgatgagca ttaagctgaa 60
gctcgctctt ctccggcgtt gcaagagacg gcgtgacctg tgaatacatc gagtgcggca 120
tgtaacatag gcaaatagcc tgcctgaaga gtgagggaaa gaaaacctgc atagattttg 180
ttctggcgtt tttgtgtgtg tttctagtga ttgtttgggt taattttccg cccttatgga 240
tgtacattac aggtatataa gacaccatat tgataatttc tccttcaggg taatgaaatt 300
aaaattaagt taatgaaatt gaaattaatg g 331

<210> 4838
<211> 425
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-002-Q1-E2-F8

<400> 4838

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tattatctca ggtcctaatt gatgatatta atgttgggta tgaaaggctg gctgaactcc 120
aggtaaagaa ggtgaatggt gttgaggttg agaatttgaa gcatttgtgc agtatcgtgg 180
agaactgcac tgaagaaaac ttgagaattg atttggacga tgagcgggag atcgtcctga 240
aatttcagaa cgcgaggctt gccacgtctc ggatcctcaa gcggcacagg attccatcag 300
ccatgtcgag tgaccttgtc gatgaacaag cgagcaaagg tgagactgag gcgtcatgca 360

caaactgaca cattttcgta ggcgtagcta cacagtttct gtggaagcac cgatgttaac 420
tcggt 425

<210> 4839
<211> 451
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-002-Q1-E2-G1

<400> 4839

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ggccctcaag ctaaggaaca ccgacactgg cgagctcatc atgcacctgg agtgggttaa 120
cctcccccca ggcatgtcgc ggtgatttga tttgatttgc agaggaggc cagctattgt 180
ctgccttttg tgatcgtaat gttgcttctt ctatatatga gctatgaaaa taattaagcg 240
atgcctatct cattctttac ataacacca ccgtaatgat ttgtggatct caccaggatg 300
gtgcgtatat aatatgagca acgtcgtggg gagatccgca gatcatcaca gtgggtgcta 360
cgtaaggcat gtgatagact tatgctgctg ggggtaatgc ttgctttcag ttttggttct 420
gcatatgttg tatggctatt ttaatacaaa a 451

<210> 4840
<211> 343
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-002-Q1-E2-G10

<400> 4840

taccggtcct agattcccgg gtcgacggga agcacctacg taggcaggca ctgaagtggc 60
actcagcctt cattccagggt gaggataagg agtgtcttgt cccatctaata cagagtctcc 120
tgccacacct caaccttaag aagaaccgtt catatagcat ctgtggcaac gtcgaattgc 180
tggccttcac gaatcaatgg tcgatttata gtttgctgcc actgtagatc tacgtcatat 240
acgtacctta cctcattaat gtgagtgtca cgttctgata cgtgtccccg tttgtgcttc 300
cagatcctgt tatggttcgc attgccact gaggtcggt aag 343

<210> 4841
 <211> 458
 <212> DNA
 <213> Triticum aestivum

 <223> unsure at all n locations
 <223> Clone ID: LIB104-002-Q1-E2-G3

<400> 4841

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 agatcggcgc ttcagcatta agctcgagga gaccttcgat gttcatacgg tacgcaaccg 120
 acgataatag tttttttcgt aattactcat gacttcaact attttaatca tgacaatatt 180
 tttcatcttt tccaattcga ctagcttata ccatgctttg caagacgcta tgtcttggag 240
 aggatggggt ttgaagacca tgaaagtttc gaaacaaaa aaattatcct aagtacccat 300
 catggtgtgg attttcaa ataaagttgtac aatgctcaga gtgtaaccca ttttggttgc 360
 aaaaattggg aagcactttg caagatgtat gggtttgatg agggatatgct tgttaccatg 420
 gatcttgggtg atcctacaat cgagcaagag agacctac 458

<210> 4842
 <211> 448
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: LIB104-002-Q1-E2-G5

<400> 4842

 gtacagggtcc taaattcccg ggtcgacggg ctatttgaaa ctgctcgacg ggagcttaat 60
 cttccttctg ctaatgaatt gattagttct cagtcaaaca atgaggcaaa tggaaatctg 120
 gaaagcacac aggaagtgcg ggtgaaccca acgagcttat ctcaatacag ggacatccag 180
 agaaagattg ttgagtttat cagaaagaga taccatattc tggaaaaatg cttggacatt 240
 gaatatgccg tgataaaaac aaatactcct gttcctgatg atcttactga acaaaatggt 300
 cctatgggac atagcccagc tgttcagat atcagtgaag tgttgagaga acttccccct 360
 cttgtaccaa tttctgcaa agaagtggct tctgatggct caactgacca ggacacacct 420
 tccatcttt acaacaagat gtgcggtg 448

<210> 4843

<211> 434
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: LIB104-002-Q1-E2-G6

 <400> 4843

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 atgccgtccc caagatgagt cgctgtgacg ccggcggaac gacatacatg accaggtgcg 120
 ttgccggtgc aagtggagat ccatgccgag gtgacaggcg ctgtgacggc gtcattccaca 180
 gcgagatgcc ctgtgtgggc ttggtgctgc gaaggcaaag ttcatggcaa gaggtctgca 240
 tgtgatctgc atcaagatta gaggagtga catgacaaga ttacggacgt gaatgtttacg 300
 attaattctt tctagccgag ctgagagagt cagttagttt gttagctgag tgagggctcgt 360
 gtgcctagag tgattctagg aggaagaagt ggtcaagata agattagatg ggtgcatgta 420
 aagtggcggt agtg 434

<210> 4844
 <211> 452
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: LIB104-002-Q1-E2-G7

 <400> 4844

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 agacatagaa agccaagaag aaatttgtat tttgggtttt agatttgcaa attgtggtat 120
 agctatcgct acctagaatc gatagaacct ctgttttttt caataaagcc cagaaagcca 180
 tacttacact cattctccag caaataactc cactggtaag ctattccttc gctagactcc 240
 tttgaagcat cggaagtaaa cacaagcaac ctgtgggtct ttgcaaccat atctgtgacg 300
 gtggggcact cctgcccact cgttggcatt tctgagatag ggtaccaata cttcatcaag 360
 tcagcagcag taaacaattt gctcaatctc atcggggcat gtacgtaatc ctgatgaat 420
 attgtaacaa tctccgtggg attctcggat aa 452

<210> 4845
 <211> 387
 <212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-002-Q1-E2-G9

<400> 4845

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cggtgcctga tcagcagctg cacatatagt cagtcgagtc gagtcgaatc gaggcagtat 120

agtttagctg gagcttgaga gggtcagatc atggagctcg tcgggagttg gaggaagggtg 180

atgccttaca tggccatggt ctctctgcag ttcggtctacg ccgggctctt cctcctctcc 240

gtcgcgtcgc tgcgccaggg catgagccac tacgtcctcg tcgtctaccg gaacgccatc 300

gcgcgcgctg ccatggctcc ctctgcgcta tggtttgaga ggaaaacaag gcgcaaaatg 360

acctctccc tgttctacaa gatcgtt 387

<210> 4846

<211> 441

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-002-Q1-E2-H1

<400> 4846

acgcctgtcg gtaccggtcc gaaattcacg ggtccacggg tagggattta tccggaattg 60

ttgtttgttc tccggtctc atttaaactt gcctagttag gtagtttcat tatgcttcac 120

cccttgccat gtttaacaac atttaattt gatcagtagc aataccgaga gagaactaac 180

taattgttgt ggtgtttcgt caatatgcaa cttgttacat attgagctcc acttaacttt 240

agtgttgttt gtgcactttg ccatgccatg cctcattaca ctggacatgc atcatacttg 300

attgtgcac atgacatgat tatgcttgtg tgtttaccat gttgtttgct tctttccggt 360

ttgcttctct cgtagcttc ggtttcattc cggatttgtg aggattcgtt cgactacgtt 420

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<210> 4847

<211> 430

<212> DNA

<213> Triticum aestivum

<223> unsure at all n locations

<223> Clone ID: LIB104-002-Q1-E2-H11

<400> 4847

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cgacggcgac ggccctcgta acttcgacga gttcgtcagg atgatgatgc tctccgacgc 120
cgaccagcag cagcagcagc agcattgaga gtttggtccga gactaggaaa tatagtccgt 180
ccgtccgtcg tcgatttctt cgggtggacgg acggacacct ctctaattccg cccgggggatt 240
aagttagcta agctagccat gcatgtgtgg atgaatggat cttgaattct tgattgatta 300
gttacaactg ttattggaaa agctagagat tagataacta actagagaaa agaaaaaact 360
aactgaacgt ggtgattctg ttccgtcggc gccagcgggtg catataatta aataattttc 420
accagtgact 430

<210> 4848

<211> 428

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-002-Q1-E2-H3

<400> 4848

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ttgacggtac caccgcggta tctacatggg gctggggcgt ccaaggagtt gcctctccac 120
gttcgcatcg acaagatcac ctctgatct cttccactac tcttaattct ccagtgggca 180
tatgcctaag aagtgatgta ttttggttac ttggttgtag tcccttggtc gcaaaaattct 240
tgtcttaatt tttttaaata aggatgtatt aagtcattatt ttagtattag atacatccta 300
tctagactaa tataagacaa gaattttgag atggagggag tgcgtaatac atgtcttggtg 360
gcaggatatt tggttgtagt actttgagat cagacgaggt acttcgctag ttccgacagt 420
ggaagggt 428

<210> 4849

<211> 428

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-002-Q1-E2-H5

<400> 4849

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 ggaagcatgt gaatgtgtct caccacagca aaccatgata ccctctgttg agtgatgaca 180
 catggaagag aaactcttcg gacctatagt tctccggcgt gctgaatacc acgtcgagtt 240
 tgatttttcc cgagcatctg gcttcccgac tagggataat actgtgaaag gttgtgttac 300
 tttggtcaat gcgactcatg tccatttgca ttctattgag tgtgtcctca tagatgaggt 360
 tcagtccgct atgctaccgc cgtccttgag aacttttagt agccaaaacc cgtctttggg 420
 tttaggac 428

<210> 4850
 <211> 448
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-002-Q1-E2-H7
 <400> 4850

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 agcccgtgc tcaccatcaa cgccttcggc tgcgtcgctg agggccttcta catcctgctc 180
 tacgtggtgt acgcgccag ggcgccagg caccgcgcc tcgccttctt cctcctctc 240
 gacgtgcgcg ctttcgccct cattgtctcc gtcaccgtgc tcctcgtgcc ccagcccagc 300
 cgcgtcaagg tcctcggcag cgtctgcctc gccttctcca tggcgcgtctt cgtgcgcccg 360
 ctcagcgtca ttttcgtggt gatcaagacc aagagcgccg agtacatgcc cttctcgtc 420
 tccttcttcc tcaccctcag cgcgcgtc 448

<210> 4851
 <211> 446
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-003-Q1-E1-A10
 <400> 4851

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gcgacgtggg caagatggag cacgggtgcg agcattaccg gcggagatgc aagatcgtag 120
cgccgtgctg caaggagggtg ttcccctgcc gccattgcc caacgacgcc acggccttgg 180
gtgatcggca taatatatgt cgccaggatg ttgaaaaagt agtgtgtgta ctctgtgata 240
ctgaacaacc ggtgtcacia gtgtgtgtaa gatgtggagt caatatggga gaatacttct 300
gtgatgtatg caagttttat gatgatgaca cagagaaagg gcagtaccat tgccatgatt 360
gcggcatatg cagggttggg ggcaaggaaa actacttcca ctgtgcaaag tgtgggtcat 420
gttatgctgt tgcgttgcgt gataac 446

<210> 4852
<211> 423
<212> DNA
<213> Triticum aestivum
<223> unsure at all n locations
<223> Clone ID: LIB104-003-Q1-E1-A2
<400> 4852

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gtttacctga ccctatgctt tgccctggcc tcatctgcgc tgggtgctta cctgcacatt 180
gccctgaaca tcggtgggat gctgacaatg cttgcgtgta tcggaaccat tgccctggatg 240
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ctggaagggg cttcggttgg acctctgatt gagcttgcca tagactttga cccaagcatc 360
ctcgtgacag ggttttgttg ganccgcctc gcctttgggt gcttctctgg cgccgcatca 420
tcg 423

<210> 4853
<211> 348
<212> DNA
<213> Triticum aestivum
<223> Clone ID: LIB104-003-Q1-E1-A6
<400> 4853

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tggatgctgt ataaaccatg agttggagaa aaaaaatgat ttttcagttt gagaaccggc 120
gccgagagag agagggagag ccgagaagag gaaggccggg atatttatta tattaattaa 180
agaaaaaaag ggcaagttag ttagttggtg ccacagaatg caatgcatgc tcccttcac 240
atcatcatca tcatcatcat aatgtgatca gagctgagac ctgatcgatg gcaaataa 300
gtacttagat cagtactcct gcttaaaaaa taaaagtgc aatataaa 348

<210> 4854
<211> 395
<212> DNA
<213> Triticum aestivum
<223> Clone ID: LIB104-003-Q1-E1-A8
<400> 4854

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ttttgtaatg ggtagtagg ggggaggaga catggataat tgggtgctcta cttactttgt 120
gttggtggtcg ggggtggtcg ggtttgttcg cggagactgc tgttattagt ctggtggccg 180
agttgtagag aactctcttt gctgctgctg ctgttacttc cttctgatgt ttttctgttt 240
tgttattata tagccggatg aagaaaagat gatgcagttt tatctaaaaa aaaaaatcaa 300
aaaaaaaaaa aaacaaaaaa aaacaaaaaa aaaaaaaaaa ataaaaaaaaa aaaagcggcc 360
gctctaaagg atccaagctt acttacgcgt gcatg 395

<210> 4855
<211> 446
<212> DNA
<213> Triticum aestivum
<223> Clone ID: LIB104-003-Q1-E1-B10
<400> 4855

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ctctgcaacc ccataatcgc caagatgtac cagggtgccg gagctaacat ggcggtggc 180
atggacgagg acgatgcacc tccggctgct ggcggcgctg gcccgaagat cgaggaggtc 240
gactaagcga gcacttgtag cagtcttacc ctaaagttat tccgttcgtt atgttggatg 300

ctactgcagt acgtggtggt ggatgtgatg tgtgtgaact gcgtttgctg ctgcttttct 360
 gttaatgtta gttgcatctg gtgatatgct gcaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 420
 aagcgccgc tctagaggat ccaagc 446

<210> 4856
 <211> 429
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-003-Q1-E1-B12
 <400> 4856

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 ggatcatggc cacgagtttg aggaacaaca atagatgtta gattggtggt accgtcgaaa 180
 gacagaagag tcagtgcacat aagcagtaca gtttggtgct gttcttatat cttgctgctg 240
 aatataccta ctagtacttg tcattagtgc gatgctgctg actttaaaatt tcttgatatcc 300
 tggaaattct ttctaagtac atatcaatat caatattcaa accttaaaaa aaaaaaaaaa 360
 aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aagcgccgc tctacaggat 420
 ccaagctta 429

<210> 4857
 <211> 378
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-003-Q1-E1-B6
 <400> 4857

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 gtggctttgt ccctgctcgg tcgccgcatt tgacgtgcag tacatcatcg acgagtgatg 120
 tcaccgttga tctgtatgaa taatttgtgt caaataaaag gggggaagtg actagtgaag 180
 taaaacgacc tgtaacttgt taccctattc ttttgcaaat gttcatgcta atcatgccat 240
 aaacacgaac tgttcgcttc aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 300
 aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa ccaaatcaaa 360

caaatacaaaa ctaaaaaat

378

<210> 4858

<211> 309

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-003-Q1-E1-B7

<400> 4858

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ctataggaca tttcatatgg cactggggcc atatgagcat agggattata taggaaatat 180

aataaagtca ttgtatcaac tgttgacgct agctgggtgc gtgcgcgtca gccgtgaaga 240

atgtgccgag gtctctgtgaa cgaataattt gtgatgcatt cgttatgaaa aactgtcaca 300

tgtttctac 309

<210> 4859

<211> 393

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-003-Q1-E1-B8

<400> 4859

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cttctttctt tttctgttct ttttatttat atttttcgtt ttttatTTTT tgttaaattc 120

atggacatct tagtagggaa taccaaagga aaaaaaaac tccgtgaaca atttttccaa 180

aaggaaaaaa aggcccaatt ttttaaaaaa aattttaacg gtttaagaat taatttcaat 240

ggttttataa ggaattttaa aattttccaa aggaaaagtt cccggaattt tgaaaaaatt 300

tgtaaaattg aaaaaatttc ttggatttga aaaaattcaa cggtttcaaa aaaattcaac 360

aatttcggta aaaattttca cgcattagtt aaa 393

<210> 4860

<211> 445

<212> DNA

<213> Triticum aestivum

<223> unsure at all n locations
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<400> 4860

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gcacggggta aagctcatcc gagctgtcac atcgggtggag taccatccgt gtacgggtgt 120
gccaaagatc gacactagcg gcgaaggcgg cgggacgacg ggtggtggtg gcgccagagg 180
gatgcacggg gtaaagctca tccgagctgt cacatcggtg gagtaccatc cgtgtacggg 240
cgtccttcac agaaaagccg atatcgtcaa attcaacagt gataggattc tcacgagcaa 300
ggcggcgaac agaaactaga ttagtgacta agtcaggaga cacaagaaca ttagatatgt 360
taacggggagt agaagtagaa gggaatgacg tttgaccgac atgtgtaatg ggtangaagg 420
aaccgttacc aacggtgatg cgagt 445

<210> 4861
<211> 417
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-003-Q1-E1-C11

<400> 4861

gacgggatca ttccggggat gtccgtcgaa tgatgtggaa tggggaactg atggggttgg 60
ctaattctcag tattaattat tactgagtag tatcatcgta ctgcagggtg cgcgcgcggtg 120
tggattactt actttagtta atttattatt actggattgt actgctgggc gttagttaaa 180
ttattacctt cagggtgtgtg cctcgatctc tcttaatcag tagtagtccg cgttggtgcg 240
gtgacaataa taaaacacga cctactactt gtgcatgttg tgatgcatgc atgtgtactg 300
gtcattcatg ctgtaaaaaa aaaaaaaaaa aaaaaaaaaa ataacaaaaa aaaaaattaa 360
aaaaaaaaa aaaaaaaaaa aaaaaagcgg ccgctctaaa ggatccaagc ttactta 417

<210> 4862
<211> 384
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-003-Q1-E1-C2

<400> 4862

gggtcgacgg ggctctccg cgccggcgcc ggcattgcca ccacgttagg cccgggtgctc 60
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 ccagatgacg cccttccttc atccgagccg gatccagatg atgcggtgcg tgcgtcgtca 180
 gaggcgcccc aacatgaggg gatggggcca cgtccaccgt ttcgggagat ccacgctgct 240
 cctccggcgt ccgctgaca agaatacctc ggcgtacggc cgtgacagtt agcattggcc 300
 gaccaatcga tatgtaagcg cgattcaca gtgcggaagg attagcgcat cgacaaaaa 360
 gccgctgct aatgggtgta cacg 384

<210> 4863
 <211> 380
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-003-Q1-E1-C4
 <400> 4863

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 gaggggtgaat aactatgctc ggatcgttgg ccgcatctgg gcgcagatcc cattcatgtg 120
 cggaagcagc atgcacatca acaatcgact actcactggg caccatccat acgacggcag 180
 tggggctcag catgttcgcy tcggggacgt gcataacgcy gaagtcgctg ttcgtcgcgt 240
 gcggctacac gatcgcgtct gtgtctatgg tgctcacggt cctgataggc ctcggtggtga 300
 tgctgctcgc gtcgctcgcc atctgcatgc acgggtacct gctgcacatt gctgttgtag 360
 atgccgtact agccctatct 380

<210> 4864
 <211> 460
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-003-Q1-E1-C6
 <400> 4864

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 agggaagaag gttctcaaga ttccgaatac ctatgccagc ttccttggcc tcatctgggc 120
 cctgatcgca ttcaagtgcg gaatcaagat gccaaaaata atcgacgact cactgttcac 180

catccagacg acggcggtgg ggctcagcat gttcgcgtcg gggacgttca tagcgcgga 240
gtcgcggttc gtcccggtcg gctacgcgat cgcgtcggtg tcgatggtgc tcaagttcct 300
ggtaggcccg gtggtgatgc tgctcgcgtc gctcgccatc ggcattgcacg gcaccctgct 360
gcacattgct gttgtacagg cggcactacc cctagctgtg acttcatttg tgtacgctga 420
agaatacaag gtcattgcaga catcatgagc acaggggtaa 460

<210> 4865
<211> 437
<212> DNA
<213> Triticum aestivum

<223> unsure at all n locations
<223> Clone ID: LIB104-003-Q1-E1-C7

<400> 4865
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atcatggtta tacctcgaag agtccagcaa ttgtcaatct acttgagatc atgacggaat 120
ttactccgga gcaacaacat gcattctgcc agtttgtgac tgggtgctct cggcttccac 180
ctggtggctt agcctcccta atcctaagct gactatagtt aggaagcact cttcgactgc 240
ggcgaatact tcaaatgcag ctggagcagc agagtctgca gatgatgac tgcctagtgt 300
catgacttgt gccaaactatc ttaaacttcc gccatactcg acaaaggagg ttatgcacaa 360
gaagctgctt tatgctatca acgaaggcca agggctggtt gatcnttcat agtgggttca 420
aaactaacat acatgca 437

<210> 4866
<211> 444
<212> DNA
<213> Triticum aestivum

<223> unsure at all n locations
<223> Clone ID: LIB104-003-Q1-E1-D1

<400> 4866
ggtccagaat acncgggtcg acggggccat ggaggccgcc gtgaagccga tgaggaggga 60
agacaaaggt tgttgccagg agggaattat gctgctgctg ctgctgctgc tgctgggaga 120
tgctgccagt ggctttgttg gcgtctagaa gcttctaggt gaggcggcac cgccttctag 180

ggtcattggct gcogtgccgc gctgcgccgc ccgtcggaat tcatttcagt cgctccatca 240
aatccgttcc gttcctatgg gtgacatttt ctattttctg cgttcgtttg tagtagtagt 300
agtgataata atatgatgat ggtcctcctc cctgcggtgc aagagagtgg agagccctag 360
ccaggcaggc tcctcttctt cttctgtgta aaaggcttga acttgaagtt ggtactacta 420
nataaatana acccagctcc tctc 444

<210> 4867
<211> 427
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-003-Q1-E1-D10

<400> 4867

aattcccggg tcgacgggga cgaccggatc tgccctcgcca cctttgtttc tgccttgcc 60
agcagcaccg cgcatatgcc ccacctcccc agccagcgca gccgccctc cgtgtcgagt 120
cctgtgctgg ccacgccgc cgtctgcca gcaccgctct ccggttgcc taaacaatcc 180
agctccacca ctaatccatg cccctgccct ccgactcaag aggatcagct gctagcatag 240
cgggtgtgcag ggggaggcct tgagcagaca ggtgactgcg tcgctggggc ggatatgagg 300
cacatctgca ggcagcggac tgtaggcaag aggcacatgg cagtgtggcg agatggtcgg 360
tggttgctg ctgttgcgag tgggctacct agaagatgga cacgaagaat atggtgccag 420
aaatggc 427

<210> 4868
<211> 427
<212> DNA
<213> Triticum aestivum

<223> unsure at all n locations
<223> Clone ID: LIB104-003-Q1-E1-D2

<400> 4868

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agaggccgat ggtgatggca acgtgatcag ccagccagca gcttgctgga tcctctctc 120
tctggatgcc taaagtcaat atgtcaatgt aatgtaaaca tccctttccc cttcccttt 180

cttcatgtaa cttcgggtcta ctccctaaga gtcttggttaa agcttgtgct ctgtagttgc 240
 ttcagctact ggtaccgtct attgtgtgtg atgtaata ttttggacca ttatgccatt 300
 cctttttcaa tcaatctgcc cgttgttgcc gtgagtctga agatgattgc tgtgtttgtt 360
 ccttcaaata ctgatgaact ttaattgcta caaaaaaaaa aaaaanaaaa aaaaaaaaaag 420
 cggccgc 427

<210> 4869
 <211> 413
 <212> DNA
 <213> Triticum aestivum

<223> unsure at all n locations
 <223> Clone ID: LIB104-003-Q1-E1-D9

<400> 4869
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 agacgatttt tgcaacggcc acgacgaagt gcatctctca attccaggat cagcatgctg 120
 gatgaatcct ccttgcctgt taagttgcaa tgggtgcaacc aaacaccatg gaggcctttg 180
 tattanggac ggtgaatctg catcgatagt gatggatgga aattgctcgc cctccttcct 240
 ccataaacca tggggacctt gtatagttgt attagcctcc ccatctatcc gtcaggaagc 300
 cctgactttc cctgctattg ctgtcgaaaa cgctaccctt gcagaacatg aaccgaactt 360
 aagtatcgca catggagctt caggtaacaa atctgaaaga accaaaatta atg 413

<210> 4870
 <211> 457
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-003-Q1-E1-E12

<400> 4870
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 gaaggacggg gagcacaaga aggacggcga gcacaaggag ggcatgatgg agaagatcaa 120
 ggacaagatc agcggcgacg gccacggcga cggcaagaag gacggcgacc acaaggagaa 180
 gaaggacaag aagaagaaga aggacaagaa gcacggcgag ggccacaagg acgacgacgg 240
 ccacggcagc agcagcgaca gcgacagcga ctgagccagc tccggccgcg ctccggcagc 300

ggagcagtgg atcgcgcatg agcctgcttg tgatagcctt ttgttcacag ccagctgtcc 420
catgaaccgg gaagggc 437

<210> 4873
<211> 413
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-003-Q1-E1-E7

<400> 4873

attcgcgggg cgacgggaag accaacaatcc tgtacaagct caagctcggc gagatcgta 60
ccaccatccc caccatcggg ttcaacgtgg agacagtaga gtataagaac atcagcttca 120
ctgtttggga tgttggtggc catgacaaga taaggccttt gtggaggcac tacttccaga 180
acactcaggg ccttatcttt gttgttgaca gcaacgacag acaccgtatt gctgaggcaa 240
gagatgatct ccacaggatg ctgaatgagg atgagctgcg caatgctgta ttgcttgttt 300
ttgctaacaa gcaagatctt cccaatgcca tgaatgctgc tgaaataaca gattagcttg 360
gtctacactc tctgcgtcag cgacactggt atatccagag tgcttgcgcc aca 413

<210> 4874
<211> 462
<212> DNA
<213> Triticum aestivum

<223> unsure at all n locations
<223> Clone ID: LIB104-003-Q1-E1-F1

<400> 4874

ggtcacagaat acnccgggtcg acgggtccgc aataaggctc ttcagcttgc atcttcgaca 60
cggacatctt atctccgtct cgttcttttg aagcatctcg gccttcgagg accttaaaaa 120
cctattcacg atgccttcgg tcatcgtgcg gaccatggtc gcctgcgggg tagagcaaaa 180
cgatatttta gaaccaaaca aaaatttggc atgaccttcc ctaaaaatag gaccaaaaag 240
aatgcttaat gccaaaattc tcgccgaaac ggaaatgaat caacattccg gcaaaaatatt 300
ggcaactatc gcatatcaaa taccggtaca cctccaaaca caaacacata tgcaacacca 360
caaacatatg caacaccaca nacatacata gatctagcta ggccgtaaaa agtgcagtgt 420

<212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-003-Q1-E1-F2
 <400> 4877

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 caccaccttc agcccatcgg ggaagctggt gcagattgaa catgcactca cagcggtcgg 120
 atcaggccaa acctcccttg gcatcaaagc tgccaatggt gtagttatcg ccaccgagaa 180
 gaaactgcct tctatttttag tggacgaaac atctgtgcaa aagattcagt cgttaactcc 240
 aaatattgga gttgtctaca gtgggatggg tccagatttt cgtgttcttg tcagaaaaag 300
 tcggaagcag gcacagcagt attatcgggt gtacaaggaa accatccctg tttaccagct 360
 tgtccgagag actgctgctg ttatgcagga gttcactcaa tcctgggtggc gtaggacaat 420
 ttggtgtatc actgttgatt gctggttatg atgacaatga cccgc 465

<210> 4878
 <211> 430
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-003-Q1-E1-F5
 <400> 4878

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 atccgtggta cgatgaagaa aaaaataaaa aagaaaaatg gatgatcaac gatcttagca 120
 caaggaataa aaaatgatga tcaacgacct tagcggcatt gaataaaaga gaagagagaa 180
 aaaaaagact tacttctactg gttagctaga ccaatgaacg ctttttttcc tcggcagacc 240
 tgataggcca agcttagcta ggataagctg gctcatttct gcgtcgtggg agtcgcctca 300
 gcaaactcga tcgaccagcg accaactagc atggctggtc cgcgaatgcc tcctaagccg 360
 atacagagct cagtaacggg ctaattaagc tggccagatt gcttgcacgg gagcgatgtg 420
 ggactacaca 430

<210> 4879
 <211> 417
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-003-Q1-E1-F6

<400> 4879

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tggtgttttc tgagtcaaaa agggcgataa atggctcttga taggcgaggg aggtcccatc 120
tgagagcacg ttgtttctcg atatccttga agtggcccaa ttttttttcc atggccttgt 180
ctgaccaatt caaggtacca tgccaagttg ttttgatgtt caatgaattt tgcattttct 240
cgagttttct cagtcaaaaa ggttgataaa tggctggaca tgtcacaact tgcgtatggg 300
gacaaaaatt gttcaaact gacatggatg cctaccattg gcatgcccac ccaattgcat 360
aagttggggg catttcaagg atgtacaatc atagaccata ctgaatggat ggtgttc 417

<210> 4880

<211> 471

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-003-Q1-E1-F8

<400> 4880

agtacggtca agaattcccg ggtcgacggg tacatcaaga ccctcgccca ggtcgtcgga 60
agtgaagacg aagcaaggat gaagatctac tctgtgtcaa ctaggcatta ttttgctttt 120
ggtgccctag tatctgagga actctcctac aaactcaaag agttgcctaa agtccgttgg 180
gtttctctcg attcatacct ggatgtcaga aataaggact atggaggaga accatttata 240
gatggacaag ctgttcctta cgaccccaaa taccatgagg agtgggtgag aaacaatgcc 300
cgtgccaatg aaagatcccg gcgcaatgac aggcctcgca actttgacag gtcgaggaac 360
tttgaaagga gaaggagaa cacacaggcc taccagagtg ggccctcaaa ccaaatgcca 420
ccccaagatg ctggctctcc aattcgcggg gcacagggcc cgccgccgcc t 471

<210> 4881

<211> 397

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-003-Q1-E1-F9

<400> 4881

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cagctgtgtt catctgcctc tgttgcagaa ctgaattcct gctcgtatgg ttggactgat 120
ggatcagggg ttagtaatc cttgtttttc gaatctatag aggttggatt acctgattgt 180
tcttggcaaa caacatttat ccgccttctt cagtcaaaaa tacgtcggga acaggtaaaa 240
acaggcaaaa taaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 300
agaaaaaaaa aaaaataaaa aaaaaaaaaa aaaaaaaaaa aaaacaaaaa caaaaaacaa 360
aaaaaaaaaa aaaaaaaaaa aaaaaaactc ctctaaa 397

<210> 4882
<211> 459
<212> DNA
<213> Triticum aestivum
<223> unsure at all n locations
<223> Clone ID: LIB104-003-Q1-E1-G1
<400> 4882

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tggattatac gcactctcac ctttcgcctt ttgctagcct cttcgggtacc gtgcattgcc 180
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acgctctatc acacatgaac ctccttatat cttcctcaaa acagccacca tacctaccta 300
ttatggcatt tccatagcca ttccgagata tattgccatg caacttccat catcatcatc 360
acgacataca ttacttttgt catattgcca ttgcatgac atgtagttga catttgtatt 420
tgtggtaang ggcacacgca tttatttttc atacatgtc 459

<210> 4883
<211> 442
<212> DNA
<213> Triticum aestivum
<223> Clone ID: LIB104-003-Q1-E1-G10
<400> 4883

tacaagtcta gaattcccg gtcgacgggg aggaagagcc cgaggaggag ctaggaactg 60

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cagaagaaaa tggatgatggt gctgaggacg aggagattga ggatgacgat gctgaggatg 180
gtgaggatcc tgtcaaggcg caatcctcat caaagaggaa gaggtctggt ggggaggatg 240
aagatgatga cgacggtgat gatgatggtg atgatgatga gaagcctcca tcaaagcgat 300
agtcaatttg ttcgtgctga tctgtgatct tctctgcttg ggccaagaag gaaaataatc 360
ctcatggaga ggattgttgg taaatgctgt agcttttagga catctgtggt aggtgttagca 420
gctcaaactt gagtctaccc at 442

<210> 4884
<211> 154
<212> DNA
<213> Triticum aestivum
<223> Clone ID: LIB104-003-Q1-E1-G2
<400> 4884

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agtaacaatc gcagaggtgc tccctttatg ccctagccga actaatggga acgtagggca 120
taagcacagg agccatgcaa ccaactttgg caaa 154

<210> 4885
<211> 451
<212> DNA
<213> Triticum aestivum
<223> Clone ID: LIB104-003-Q1-E1-G5
<400> 4885

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cggctcctct ttggcacgcc ggctccacca tcgcctatgt cgttgacgac ctctcgatc 120
cttcgacggg gagctatagc ctgctgtgga gcggcaggat gcagctggtc ggcacgtgca 180
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ggaggtggca caggaggtac aacttcgctg accatccgac aacggggcgc tacaaggtgg 360
tgcacgtccc ctgcagcttc aaccgggtcc gcgacgcggt acacgtgctc acgctagggg 420

aggaggcgtg gcgagaggtg ccagccccg g

451

<210> 4886
<211> 421
<212> DNA
<213> Triticum aestivum

<223> unsure at all n locations
<223> Clone ID: LIB104-003-Q1-E1-G6

<400> 4886

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ggtcacatca gaataaggag caagacacaa ggaatcgcg cttagcttggg agataagatt 180
accctcaagc agaagggagg cagttaattc tgatgttgcc tgctcacaaa caccggattg 240
tatgacatgt tttcttcaag agatccactt gccagtgtca tactagaggc acaatgggat 300
tgattgaatt aattacagga agcttttgtg tacaaaatat caaagagaag aatgataaaa 360
gaagaggatc gtagggaagt tagtcttggg agctgaaaaa cgatcttgac acttcctttc 420
g 421

<210> 4887
<211> 445
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-003-Q1-E1-G9

<400> 4887

gtaccagatc cagaattccc gggtcgacgg gagaacaggt gctggatcga atcaagaatg 60
atctcattga ttggacgttg gcaggcaagc ataaggtggc cctaatgatc cacagaccta 120
gggaaccaga ttaatttttg tgctgttggg aggctagtaa tggggttcag actgtaattc 180
ggtggctgga tactagcttt gtatcctggg taacttgcta gttgctatac ccctgtaaaa 240
ctcttttcta atttcaatga aatgctgcat catgcagtct tttcgtcaaa aaaaaaaca 300
aaataaaaaa gaacaaaaaa taaagaaaaa aaaaaaaaag acaaaattaa aatgaatata 360
ccctaaaaaa caaataaata caaatcaaa aaactacaaa aaatgacccc aaactttaaa 420
ttaaaaaaaa actgcggccc cccca 445

<210> 4888
 <211> 418
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: LIB104-003-Q1-E1-H10

 <400> 4888

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 ttggacaata agtcgccagt atctatttgg attgcgccct tggaatcatg cgcttataaa 120
 tcattgggta tattgttcaa atctttaata gccaacatgg ctggattttt attatgggta 180
 tcaataacca gtattatgat taaggttttc aaagtcgctt taacgcaatg gatatcgtat 240
 tatcaatgga tatgatttat tctacagttg aaggaatagt cccaagttgc tgcaggctta 300
 cgacccggca cttggggggct acattatttc aagttgagat tacatcaaat atgcaagtct 360
 catgtcactg caagcatgca ccatgacact tgggggctaa tgcaaagtca ttttttgc 418

<210> 4889
 <211> 377
 <212> DNA
 <213> Triticum aestivum

 <223> unsure at all n locations
 <223> Clone ID: LIB104-003-Q1-E1-H11

 <400> 4889

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 gcaggcgaga tcagttaacc tggtaagcgt cctagcccg ataattagac aaaataggtg 180
 ttttttggtc aacttagcaa aattagatct ctgacangtc agatagattg ttcttaatcc 240
 cacttgctcan gtattatgtg aactattgga ccacgttgta gatattcgta aatgctgtcc 300
 ggagatatac tcgtccactc gggaaaaaaaa annaaaaaaaa aaaaaaaaaa aaaaaaaaaa 360
 aaaaaaagaa caaaaag 377

<210> 4890
 <211> 397
 <212> DNA

<213> *Triticum aestivum*

<223> Clone ID: LIB104-003-Q1-E1-H2

<400> 4890

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atggtggact acgttacaca aagaagtgaac acgttcatac ctgatactct cattgaatcg  120
gaggtggaac aaaacgctga gaatcaaata ccagatgacc cttatgaggt catatcaatc  180
ttcatggatg atttcagtcg cacgaagagg aacatcattg gccatgtctc tgggtgggtg   240
ttgagcgaca gccgcgaaga taagatcgat gattttgtcc aggaaatgga tatgacccgc   300
ttctggccac tagaaaggag agaagggatc gccgaggtcc tcctcaagaa tgtggacatt   360
aaaactaagt ttcactgccc tgagaaatat gaaaacg                               397
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<210> 4891

<211> 430

<212> DNA

<213> *Triticum aestivum*

<223> unsure at all n locations

<223> Clone ID: LIB104-003-Q1-E1-H3

<400> 4891

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ggtggcccaa tttggaattg ggggaacctc ccttggcctc cggtttgtgc aaacgggtccc  180
caaaactgac caaaaagcac aaaatgtgcc aaaaggcgac aactgagatt ttcttgcaat  240
gttgatccag ttgatggtgc acggggcatc caagatttag accctgcaac tactcttggt  300
gtggttgtct caaagaactt cacgacagct gaaacaatgt tgaatgctcg aactatcaaa  360
gagtggtatt tctctgctct tggacctcag gctgtntcca aacacatgat tgctgtcagt  420
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<210> 4892

<211> 440

<212> DNA

<213> *Triticum aestivum*

<223> Clone ID: LIB104-003-Q1-E1-H7

<400> 4892

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atgggcttcc ttttaccggt gtacatgatg attctgatag atataatatg catgtgcttg 180
ctgctcctac ttacaattat tatgagagag gaactatacc tccacctctc tatgtttcca 240
atacgataaa attgcaagaa actgtttata ctatgcatta gcctttacta cgtgtgcatg 300
aattgttctt ttatgacatg ccgatgcata ggaagagagt tagactttgt cattgcttta 360
tatatgtctc tttgtgctca ctactaaatt acaaatcatt gttaattaaa attggctttg 420
atataccttg ggattccggt 440

<210> 4893

<211> 466

<212> DNA

<213> Triticum aestivum

<223> unsure at all n locations

<223> Clone ID: LIB104-003-Q1-E1-H8

<400> 4893

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gatactttac tgatgttatc tatggaaata ggaatggttt tcttactgta ttacagaaac 180
cattgagttt tgtcggtgaa tcttacattg tcagaaaggt tagaaaactg gaagcgtaca 240
ttatcaatta ttggtacaag aaagggcaca gaccactcaa gcaccctttg ctccctgatg 300
caagaacgat tgtgaagttt gatccgtgtg aaggcccagt ctcacctaga gcatagcaca 360
gtcatgtact cctccggtc ggaattactt gtcacagaaa tgggtgtaac caaatgtat 420
ttaagttata gatacatcaa tttccgagac aagtaattcc gaacgg 466

<210> 4894

<211> 432

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-003-Q1-E1-H9

<400> 4894

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cagttcgatt cacgtcaacg gctgggttcgg caagcacgac aagctgagcg ccagcgtgtc 120

gctcgcgcg cgcgcattcg gtctcgacct gcatgccgag cgcgaacgct ggggtgttcgt 180

gggagactcc gccaacgatg cggcaatgtt cgagttcttc ccgctctcgg tgggtgtggc 240

caatgtgctg gacgtgacg atacgctgcc cgtgcccccc gcgtacctca ccgaggccga 300

aggcggcggc ggttttgccg aagtcgccga gcgcctcctg gaagcgcgtt ccctagccct 360

ccccgcgccc cgcgactgac acggcattcc tgcaccgcaa cacgcgctgg agaccagcg 420

tcgcttgccc ca 432

<210> 4895

<211> 367

<212> DNA

<213> Triticum aestivum

<223> unsure at all n locations

<223> Clone ID: LIB104-004-Q1-E1-A2

<400> 4895

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gatactgaca gctaaattca attcagtggt cgtcgtttga gaaatttgtg actggaagat 180

ccctgtgggt atgcaaattg ggccccttgc agcaaactctg cctttcacca tctaggataa 240

tagccaagag gacagcatgt ataggtcttc ccaccagttg cacagccaga atgagtaatg 300

ggattcacca tgtagcggca catttagcac ggctcgtgtt ctagttaacc gcatcgtgac 360

tgcaaca 367

<210> 4896

<211> 437

<212> DNA

<213> Triticum aestivum

<223> unsure at all n locations

<223> Clone ID: LIB104-004-Q1-E1-A4

<400> 4896

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gctcctcacc ttgctctccc atggggcatg gtgcgcagca gcagcgcgaa gcgccatggc 120
tgaggatgcg gctcgtcatc atctgaggcc tcatcaccat ggcaagaggc tcctggagat 180
acagactccc aggaaggctc ggcacgcgac aggcggatcc gganggggca gcagcggagc 240
ctgcatgagc ggtggcggcg gcacggacac aaggccacac aacagcaaga atggcggcgc 300
catggcgctg ccagctccag cgacctccct cctggcgctg gttctcaccg ctaccattct 360
tctctcggcg cacagcttct gaagcactcc ctccgttcct ttctacaagg cgttttggac 420
agctgacatt gaactgt 437

<210> 4897
<211> 441
<212> DNA
<213> Triticum aestivum
<223> Clone ID: LIB104-004-Q1-E1-A6
<400> 4897

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cccggtgggc atattttcat cagggagtcg tgcttccacc agtctgggga ttccaagagg 120
aaagtgaacc cgacgcacta ccgggagcca aggttttaca ccaagggtgtt taaggaatgc 180
cactcctatg accaagatgg gaattccttt gagctttctc tggttaacttc caagtgcatt 240
ggagcttatg tgaagagcaa gaagaaccag aaccagatat gttggctatg ggagaaggtc 300
aagtgcacag aagacaaagg ctttcagaga ttcttgaca atgtgcagta caaatccact 360
ggaatcctgc gttatgagcg cgtgtttggg gagggttatg tcagcacccg tggaatttca 420
gacacaaaag aatttgtgga c 441

<210> 4898
<211> 452
<212> DNA
<213> Triticum aestivum
<223> Clone ID: LIB104-004-Q1-E1-B5
<400> 4898

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caagctggtg gaaagtaaga ggtttgagcc aagctattct cagaataaag cttagaccg 120
accttggtgt tgggtggtat tgtaataaga agaaaataaa gaggcataaa aagatgttat 180
ctaccacata tggatgaactt ggatgcagtt taccacatct tttcggtctt gaagatcaat 240
gcatcaatat agatgtcatg tatttatcat tataatcatg ttgttcggg aatattggtt 300
cttgatttta gtcattgatg gcaacagatt gaaactatta ctcaaaagta caagcatata 360
tcatgtcgtc gccaaatgtc atgcgtatac ccattttggc tgtgccgtaa agtttccttt 420
gttacattca cggatgaaat aaagtttggt tt 452

<210> 4899
<211> 426
<212> DNA
<213> Triticum aestivum
<223> unsure at all n locations
<223> Clone ID: LIB104-004-Q1-E1-B6
<400> 4899

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taatttggtc acccaccgta atactaatgc tatcttgaga gaagccacta gtgaaaccta 120
tgcccccccg gtctatctct tatcatattt gctttctatc tacttttatt tgcattctta 180
ctttttgcat ctatattata aaataccaaa aatatatcta tcttatcata ctatctttat 240
tagatctcac tttcgctagt ggccgtgaag ggattgacaa cccctttatt gcgttggttg 300
cgattttctca gtttggttggt gtangtgcgt gggacttttg aggagcctcc tactggattg 360
ataccttggt tctcaaaaac tgagggaat acttacgcta ctattgctgc atcacctct 420
cctctt 426

<210> 4900
<211> 435
<212> DNA
<213> Triticum aestivum
<223> unsure at all n locations
<223> Clone ID: LIB104-004-Q1-E1-B7
<400> 4900

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 acttcgtgta cttcgtttgt gtccaacgac cagaccaaga cgccttacgg atccccacct 180
 ttatcaatac ttcatatata ctgcgaatat tcggattgct tttatcatat tcttgcttgt 240
 tcttcgattg cttgcaggaa tagaccttcg tggtcagggt gattgtgctc cggcgtggtc 300
 aataacctct cgggggttgg ttagcgattg ctaaggcaca acgtcgtgca cgttttagt 360
 cggatcgta aagtcactc caccaaatcg atagttatca tcccatcgaa agatcgggac 420
 acctcgctc tatca 435

<210> 4901
 <211> 456
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-004-Q1-E1-B8
 <400> 4901

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 aagatctgaa attattaaat gttagagatt cttcgcatag ttgcataatt attcgactac 180
 tcattgatct tcaattatat ctttcggagt agtttgcac ttgctctagt acttcactta 240
 tatcttttag agcatgggtg tagttttatt ttgaataaat agatgaactc tcatgcttca 300
 cttatattat ttgagagtc ttaaatagca tggtaaattg cttaaaatcc taagatgtta 360
 ggtatacaag attagtaaaa aacttcctat gagtggtttc aatactaaga gaagtctgat 420
 gcatgatgat tgttttgaga catggaggta ataata 456

<210> 4902
 <211> 415
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-004-Q1-E1-C5
 <400> 4902

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 gatcgacacc gacggtgacg gcttcacga cttcagcgag ttcactcct tctgcaacgc 120

caacccgggg ctcataagg acgtcgccaa ggtcttctga atcagttcat ttcacctcag 180
 ccgtccgttc caggagccga tccatctacg tacggcttcg tatatcaatt tcatgcaact 240
 acctactccg gtcccgatcc agcctcagct tcacctgagg ccggccctaa atttgtttga 300
 tcaattcttt tgctactagt agtaactagt gatgatcact gttgcatcat ttatttat 360
 attttatata tcatcacaag tttcctgtga ttcttttctt tctatacctt tttgt 415

<210> 4903
 <211> 462
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-004-Q1-E1-C6

<400> 4903

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 agacagggtc atatgcatgc tccaacttga tcaaggagga gagctacaca tgttttatgt 120
 tattttacct aagatagagc agcagcagtg attagctagc tagaaatgag tttgaggatg 180
 atgatgtgct acgctattac tatgatgata aaatagcgag tgttggtagt aatgactatg 240
 atgattatta ttagctagtg ttagtggtga ttaaataaat attgttgatg gtaatggcta 300
 tgatgatgat taaatagctt gtgctggcgc attagattca agtggaggta acatgtggtg 360
 cacattgaaa gtactactag tccaaactga tcacgtttgg attagtagta tacttttgac 420
 atgcaccaca tattgcctcc acttgaacct aatccacctt ca 462

<210> 4904
 <211> 385
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-004-Q1-E1-C7

<400> 4904

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 tgctcctttt acatgatgat tactattatc ttaatcttag tgcagtgtga tgtaatatgc 180
 accatgaatt ggtagtgcag tgcagtgcag cacagcacat ctctgaacct gggaaggtag 240

tactagcttt cttttcactc agacaagtcg ggaggggggtt tcttgtcagt tagtcggttt 300
 ctggcttgtc agttactgtg gtgcgtgtcg tgtggatcga gttagttgta ctaccagaaa 360
 ttcgggatga caggaacca tgcatt 385

<210> 4905
 <211> 219
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-004-Q1-E1-C8

<400> 4905

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 ttgtcgtgat ttgccgattg gtactctata tgtttgcaa ataagctgtg caccgtgtgc 180
 acctttggaa cagtgaagta gtaattattt tgtgagctt 219

<210> 4906
 <211> 398
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-004-Q1-E1-D10

<400> 4906

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 ggaggtggtg gccttctgcc ggaagaacct ggcggcgttc aaggtgcca agaaggtgta 120
 catcgccgcc gacctgcca agacggccac cggcaagatc cagcgccgca tcgtcgcgca 180
 gcacttcttc gtcgtgcccg ccgcgcgcgc caaggcctat aagagctcgt cggtcogtcg 240
 atcgatcacg tcgccgtctt ttgtcccttt tttttacgtg ccagacagaa caggggattg 300
 ataatgaaat tgcgcgccac atgacattgg agagcggtaa aagttgtggt tgatttgatt 360
 gatgaagatt aaaaaaagac aaccaacaaa aaacaaaa 398

<210> 4907
 <211> 329
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-004-Q1-E1-D5

<400> 4907

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gaagaagacg acgaatatga ctaggatgac gatgatgaag aatactatga ctaagaagaa 120
gaagtagatt atgaagagga ggaatatgaa gaataagatt gagattaaga agatgaatat 180
taataattat tcgaagatta tgaagaagaa taagaagaag aagatgatga tgaagtagat 240
cgaatatcaa gacgactgat aataataata atgagaagat cgtgacttcg aagatgaaga 300
cgaagattag gattgataag aagacgaac 329

<210> 4908

<211> 394

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-004-Q1-E1-D7

<400> 4908

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caccagaacc cgtccgtccc gagcagcgac ggccatcagc agacgcagga ggtggagttg 180
gggactagta cgaagcgaga cgacggcgac gtcgagagcc aggcttccat gagatgacca 240
ctttcccttt ccttggagag agttaacctc aggacatcat ttgtaaatcc acagcatagc 300
tgaattcaca taagctgcca gctgacttgg ttgcaacgaa caaaaatgat attttgttct 360
tgagatatat atatatagtt cttttgttag acac 394

<210> 4909

<211> 371

<212> DNA

<213> Triticum aestivum

<223> unsure at all n locations

<223> Clone ID: LIB104-004-Q1-E1-E1

<400> 4909

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acctatgaac ctgttttcct ttgcattgtc tatctagatc taggcatgtg ttcacttagg 180
 ccgaggattt gtcattggta tgtttttaga tcggtgaggg tgtggtggac ggaggtggcg 240
 tttgcttttg ccagaaata atggtgttat tattttggat ttaaagagg aggtgtgatt 300
 tgacggatat agtgttgcc ttttgattct acatgtctga tgctccctac gccacaattt 360
 actanggatg c 371

<210> 4910
 <211> 398
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-004-Q1-E1-E5

<400> 4910

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 gccatggacg cgatgattcg ggagcagagc agcttctgtt aagaaataaa taaagaggat 180
 cgggtgctga caatgttgtg gccgtgtgtt ggggtgtgatt gtttgtttgt tgcagtggct 240
 gcattcactg gctgggcacc aggatctata agataatgtg tacgtacgta cgtactgtat 300
 tcctgaactt gtactgtgac gagcgagact cgctttgtaa cgtgctattc tgttgccaaa 360
 aaaaaaaaaa aaaaaaaaaa aaaaaaagcg gccgctct 398

<210> 4911
 <211> 406
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-004-Q1-E1-E6

<400> 4911

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 gagtaagtgg ttcattatct tgcttgctac atgcttattc cggttgttat ttattttgct 180
 tgtcacatgc taatagttca ttcttttgca gaaactggat atattctaaa ggggtccgta 240
 ttcccaacgg cctcatcacc gtcttgctga agttatattg gccgggggttg tactgtccgg 300

attcagtcag gcagctggac tgtcgggttt tggccacgag ctgggaacac tgggaagcgg 360
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<210> 4912
 <211> 471
 <212> DNA
 <213> Triticum aestivum

<223> unsure at all n locations
 <223> Clone ID: LIB104-004-Q1-E1-F2

<400> 4912

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 ctatttatag acagggtaaa tacccaagca tcacgggtcaa accctaggtg gcgtagtaac 120
 tttttgctaa gaaggcgctt cggttctctc tttgacgtga tttggcctag attgggagta 180
 ccaaaagaga acgggcaaaa ataaaagata agtatgaaag aagtattcat gaccagtga 240
 atggccgaga ggtggaataa gagacatctt agctcgaagc atggggcaaaa gctgactctt 300
 gctggtgaga cccgtatttt ggtccttgat acttttaact gactctcatt ttcagggaaa 360
 gcttagcagg aataaatcca atctaacttg agggataatg ttggggatac tccccacggg 420
 cgagacatan agatctatat attggaagcc tatgtttgga catcagaatg g 471

<210> 4913
 <211> 447
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-004-Q1-E1-F3

<400> 4913

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 aatttgagga atacttgtgt ggaagtgtgt gattcccgta gcatgcacgt atggtgaacc 120
 gctttgtgat gaagttggag cataatttat ttattgattg tcttccttat gagtggcggt 180
 cggggacgag cgatggtctt ttctaccaa tctatcccc tatgagcatg cgcgtagtac 240
 tttgttttca atggcttgta gatttttgca ataagtatat gacttcttta tgactactgt 300
 tgagtcgctg gagtatacgc acgctcacc ttccaccatt gctagcctct cttgtgcgcg 360

gcaacttttcg ccgggtacat acaccaccca tataccttcc tcaaaacagc caccgtacct 420
acctattagg gcatttccat agccatt 447

<210> 4914
<211> 295
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-004-Q1-E1-F5

<400> 4914

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gattttcatc tcgcagatga cggcaatggg tggtgccaaa ggatcaagaa cgacttcaca 120
tttgagtaca acttccttga ggatgaactg tcagtacagc catactaagg caccattgcg 180
gatcaccgtg ttcgatcaaa tacgactcgt gtaattttca caatggaact gctggtatcc 240
ggaaccaatt cgaactccac aattgtaagt tgtaacctg ttggctaatt tacat 295

<210> 4915
<211> 464
<212> DNA
<213> Triticum aestivum

<223> unsure at all n locations
<223> Clone ID: LIB104-004-Q1-E1-F7

<400> 4915

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tgcgggggtgt gcccagctc ggtgatgacc atgaggatgg gcattcagcg gcgtttgatg 120
gatgaaatac cagagattgc tgcagttgaa gctatcacgg acaaggacgc tgggcttaag 180
ctgaacgaag agaatgttga gaaggtactc gatgagatca ggccatacct caccggtgca 240
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ggccctgcag caagtgtggc ggccgtccga gttgctatag cacagaagct caaagagaag 360
atcccatcca tcgcagctgt ccggetactg ccgtaaactt caactgcana acattgctgt 420
gaatatctgg ttatccagga gaatgctatg aatgcgctaa ctga 464

<210> 4916
<211> 461

<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-004-Q1-E1-F8

<400> 4916

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agctgcatgc tgtggatctt ctacgcgctg gtcaagacca actccagccc gctgctcacc 120
atcaacgcct tcggctgcgt cgctcgagggc ttctacatcc tgctctacgt ggtgtacgcg 180
cccagggccg ccaggcaccg cgccctcgcc ttcttctctc tctctgacgt cgccgccttc 240
gccctcattg tctccgtcac cgtgctcttc gtgccccagc ccagccgcgt caaggctctc 300
ggcagcgctt gcctcgctt ctccatggcc gtcttcgtcg ccccgctcag cgctcatctc 360
gtggtgatta agaccaagag cgccgagtag atgcccttct cgctctcctt cgctctcacc 420
ctcagcgccg tcgcttggtt cttctacggc ctcttcacca a 461

<210> 4917
<211> 469
<212> DNA
<213> Triticum aestivum

<223> unsure at all n locations
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<400> 4917

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cagcgagcgt gccacggcgg tcgctcgtg gtgaaggcgc gggagggtgtg gctctcatcg 180
aggccaacga cgacgacggc agtcggcggtg acaagatggc atttgcggcc gtctgcgtgt 240
tgcatcgatg acgtgaacaa tcattggctt caagagagaa ataagttaac aagattaggg 300
agggtgaatg tagaactaat cttgttatta gtgcgtacga ttagatatgt ttatatcatg 360
cttgtagttg agctgcggct gtgtgcacac gtcaggttgt gttcagtgcg caaggcanag 420
ctaattatgc atggtagtta gatgcatgcg ttaaagctcc gcgagtcgg 469

<210> 4918
<211> 437
<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-004-Q1-E1-G5

<400> 4918

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tccttatatc atgataaatg tttattattc atgctagaat tgtattaacc ggaaacataa 120

tacctgtgtg aatacataga caaactaaac gtcactagta tgcctctact tgactagctc 180

gttaatcaaa gatggttatg tttcctaacc atagacatgt gttgtcattt gattaacggg 240

atcacatcat taggagaatg atgtgattga catgacccat tccattagct tagcacccga 300

tcgttttagta tgttgctatt gctttcttca tgacttatac atgttttttt tgactgtgaa 360

ctgtggggaa aacccccaca gcatatcaaa actttattat taaagccaga caacagttac 420

aacaacatga ttacaag 437

<210> 4919

<211> 419

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-004-Q1-E1-G6

<400> 4919

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tagtggacag ataagccaac cactggatgt ggttttgagg gatttttgca gtgggggttg 120

taggggtgcta tgccgcgctg ggtttgggat ttgaaataaa acgaaggag atgtgccacg 180

ctcttaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 240

aaataaaaaa aaaaaaaaaa aaaaaaaaaa aaaaatttaa aaaaaaaaaa aaaaaaaaaa 300

aaaaaaaaag gggccccca aaaggttcaa acttaattac cccttcaagc aaatttaaaa 360

ccctcaaaa ggggccccca aattcaattc aagggccctc cttttaaaaa cttctaaac 419

<210> 4920

<211> 457

<212> DNA

<213> Triticum aestivum

<223> unsure at all n locations

<223> Clone ID: LIB104-004-Q1-E1-G7

<400> 4920
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 gcattcaaaa acaccaagct tgatctttga atacatcaat aacacagatt tcaaagtgc 180
 atatccgaca ttgacagatt atgacattcg ctactatata tatgagttac tgaaggcttt 240
 ggattactgc cattcacaag gcattatgca ccgagatgtg aagcctcaca atgttatgat 300
 agatcatgag ctctgaaaac tccggttaat agactggggc cttgctgaat tctaccatcc 360
 tggaaaggag tataacgttc gtgttgcata aagggtacttc aagggtactg agcttcttgt 420
 tgactttcaa gattacgact actctttgga catgtgg 457

<210> 4921
 <211> 450
 <212> DNA
 <213> Triticum aestivum
 <223> unsure at all n locations
 <223> Clone ID: LIB104-004-Q1-E1-H3

<400> 4921
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 gggctacaac tccctcaaga acttccgcga gatctcccc gccgtgcagt cccacctcaa 120
 gctcgtttac ctgacctat gctttgccct ggctcatct gccgtgggtg cttacctgca 180
 cattgcctg aacatcggtg ggatgctgac aatgctcgcg tgtgttgga ccatgcctg 240
 gatgttctct gtgccagtct atgaggagag gaagaggttt gggctgctga tgggtgcagc 300
 cctctggaa ggggcttcgg ttggacctct gattgagctt gccatagact tttgaccaag 360
 tatectctg acagggtttg tcggaaccng catgccttc ggggtgcttct ctggcgccgc 420
 catcatcgct aagcgcaggg agtacctgta 450

<210> 4922
 <211> 467
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-004-Q1-E1-H5

<400> 4922

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tcaaagaatt ctgacaagac atccatcttc cttgatacgg acgctccacc actagggaac 120

ctggaggtaa agagaataat aaagaaacag agctcgcatg aatgtatttt ttccttactt 180

ctacgtatat cctgtacgca tgaaggacaa gcttgacgac gtgtcgccgt tcgtgcctat 240

gagccgcggt atggaacaac tcctagacga ggtgatggaa aacatggacc aagatgagcc 300

gtccacaaaa tccgcacctc tggccaagtc tagttcggtg gcgatgcaca cgcgcccgcc 360

aatgagtgat ccagctgcga attcttcaac tgtggcaggg agcaatctcg tcgcaaaacc 420

cgctccctg gtgaccaagc ccgctttctt taacacatca acaggca 467

<210> 4923

<211> 455

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-004-Q1-E1-H6

<400> 4923

ttcccgggtc gacggggcggg taacttttagc aaagaacacc acaataagtg aagcgagaaa 60

atagatgacg acttaccaag tttgggggat tgtacacgga gaatccgtcc cgcggtttga 120

tatggaggaa gtctttctct tctcctttgt acaggtcgga tagtatactt gccagagcgg 180

tgggggagtc cggaccctta cggccacagc gcgtggcatc gtctgtcccg ttgtagtgcc 240

acatgggatt gctccgatat tgaagtgggt gcaactcccc cattatgcat attgccatca 300

cctcgactat cgtcagtcag gatttgcca gtaattttat cctgctcatc aggaaatgta 360

cttccttgca atcctcctct tgggggcctc gggggtgcca gcttagacgt gccctcggcg 420

gggtgttaca gaacttgggg agtcctatcc ggact 455

<210> 4924

<211> 465

<212> DNA

<213> Triticum aestivum

<223> unsure at all n locations

<223> Clone ID: LIB104-004-Q1-E1-H7

<400> 4924

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 gcgaaaaggc ttattcttcgc gttacaccaa tgaaggggtgc tcaccgcttc gggatcaagg 120
 gcaaactagc tcctcgctat attggccctt tcaactattct ggaaaggcgt ggaaaagtgg 180
 cttatcagct ggagcttccg ccgaaccttt ctcaggttca cgatgtgttc cacgtgtcac 240
 aactccgacg ctgcttcaag gacccaatcc gagcagtggg ccatgaagtg ctccaattgc 300
 aacaggacct ctctataaaa gagcatccgg tccgcattct cgaccaagct gaacgccgca 360
 cacgtcagaa ggcgatcaag ttctctaaag tccagtgggc gaatcactct gaagacgaag 420
 ccacctgnga acgcgaggat cgtctacgag atgaatatcc cgcac 465

<210> 4925
 <211> 439
 <212> DNA
 <213> Triticum aestivum
 <223> unsure at all n locations
 <223> Clone ID: LIB104-004-Q1-E1-H9
 <400> 4925

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 gaaaggccac ggaatgacat gcaagcaagg gccatgtacg agtccttat ggtaagtttc 120
 ttctgcagat tagccaaaac attcatgtag tgtttgtctc attactaagt agtatgactg 180
 agtcgtcaaa accaaatgtg cagtctgtgt gcgagaagac aggtcagacc gtcgccgca 240
 tgccagtgat tgttcctggg accacggtga gttttatttg aatggaaatt acttgctagt 300
 cttaacattt gagtgtcatc atgctaaca gacattggaa atgatacttg gtgcagcgta 360
 actccagaca agcatcgcac gagccttctc cagcttacga catgagccac cccgctccta 420
 cacctcctgg atcttggtg 439

<210> 4926
 <211> 253
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-005-Q1-E1-A1
 <400> 4926

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 cgcgccagaa aagcttaccg cactggacgc tgctcgacgg ctgaactaag tttagcattg 120
 ttgaagcata tctagtcctc atccgtgact agtgtgcaag cagactgtgg cagtttggct 180
 ccagttgtga aagtcatttt tgtttgtctg agacatcttg gaaagaacag tgtaggaatg 240
 aagtatttct gtt 253

<210> 4927
 <211> 228
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-005-Q1-E1-A12
 <400> 4927

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 tatactatca tatattattt atcatctcag tcagatctca ctttcgtacg ttaccgatat 120
 tggattgaca acccctaagc acgttggttg cgtaaactca ctgaactttg tgtacgtacg 180
 agggactcca gcgttgccct ctactgggtt gttactttgg ctcacaga 228

<210> 4928
 <211> 425
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-005-Q1-E1-A7
 <400> 4928

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 agaatgagtt cattacagta cattaaagta gtcttttggt ttctttctct aacggagctc 120
 acgagatttc tatcgagttt tgtggttggt agttttcaag ttttgggtga attcttttga 180
 tggattatgg aacaaggagt ggaaagagcc taagcttggg gatgcccatg tcaccacaa 240
 gataatccaa ggacaccaa aattcaaagc ttggggatgc cccggaaggc atcccctctt 300
 tcgtctactt ccatcggtaa ttacttga gctatatttt tattcaccac atgatatgtg 360
 ttttgcttgg agcgtcttgt attatttgtg tctttgcttg ttaatttacc acaatcatcc 420
 tttct 425

<210> 4929
 <211> 420
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: LIB104-005-Q1-E1-A9

 <400> 4929

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 ggggttcgggg ggaacgtggg gcacgaccog catgtcctct acacgctcag cgccgtgcag 120
 gtctcttgcc tcttcgatcg gctcgatggt catgatgcag acaaaattgc tgactatatt 180
 actggacttc aaaatgagga tggatcattt tctggtgata tttgggggga agttgatact 240
 aggttctcgt acatttccat atgcaccttg tcattactgc atcgtctgca caaaattaat 300
 gtggaaaatg ctgtacaata tattgttagc tgtaagaaca tggacggcgg atttgagct 360
 atgccaggag gggagtctca cgctgggcag atattctgct gtggtggtgc tctcgcaatc 420

<210> 4930
 <211> 394
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: LIB104-005-Q1-E1-B3

 <400> 4930

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 gacattgatg cgacgctcta cactggtctt gttgtatggt agtcagtgtt aagtttctta 120
 atgtcatttc atatatttat cctttccatt ttgagtcgct gaaactgctg agtgatgtgc 180
 agtttgctct gttggctgct ctgtcacttt cacgtttcat attctttggt gtgtagttcc 240
 tcatactgct ctttcttcct gagtctcgga aagaataata aagagccatg tgtaattcta 300
 ttgcactgtt ctcccaaaat tgtcattatt ttaagcagta ataataataa taactctgta 360
 ccaagtctca gtaatacctg aagttgatcg aatc 394

<210> 4931
 <211> 252
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-005-Q1-E1-B5

<400> 4931

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 ttgcttttgag aactgtaagc gtgtttaacc tgacagcgcc tgtaattgta ggccctttcc 120
 gcataacttca cagcttggtg tcttatgagg tgctgcaggg cagcaggctg gtttatgccg 180
 cctcggtcac tattatcatt tgtaacttgt tagagtgcac attaattctca ggaggacata 240
 gacataatac tt 252

<210> 4932

<211> 398

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-005-Q1-E1-B8

<400> 4932

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 tcatcatctt gtactaccac cagccagcag taataaagtg gcgcctatga agaataaagg 120
 ttgtgccatc tccaagaatt gttatccttg tatcatgttt gctgctgcaa tgcaatgcag 180
 atgtagtggg aacttgccctg cttctttttc atgctcccat ccgtgcttcc tcatacatgg 240
 cctcttgaaa gaaaataagc cccggtccca ttccctgaaa atcaggggat gattagatta 300
 gaaaagaaaa agaaaaaaga acagccgtaa gatgaagtga gagcacggat gcatacatgg 360
 cttgatttga ttggaagaaa ataaagtccg gcaacact 398

<210> 4933

<211> 427

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-005-Q1-E1-C1

<400> 4933

gggtcgaccg gtggcagcgg cggagcgaag gtggaggctg ggatggaaca ggtgaagagc 60
 gccttggaag agctcatgga cggaggagcc gaaggggaag ataggattag gaaggttcag 120
 gagctgaagg cgaaagcgaa ggctgctttg gagaacggcg ggctcgtcgtg catgaatctg 180

gacaagctgg tccaatccgt cgtctgaaaa ttagcgcagc atgtcggccc tgaataaatt 240
ctgctgcttt cgctcattga tgaacagatt ggggttgttt cttgcttgct tggaagatcg 300
agagtgaaaa acatatccta tgttgtaagt tgcaactgta tctcatgcca actcagtcta 360
caagtctctt gttaggcgct gcctgcttcg taaaaaaga taacgaagct ggcagctgct 420
ctaacac 427

<210> 4934
<211> 307
<212> DNA
<213> Triticum aestivum
<223> Clone ID: LIB104-005-Q1-E1-C10
<400> 4934

gggtcgacgg cccaggggaa gatgatgctt atggggacga ccgcgctgat tacaggaaat 60
ctgaaccacac tacctacatc aatgctccct tggtaggggt tcttgcttac ttcgttgcca 120
acccaaaccc aggccatata agacactgag cataagcact ttgccatgta gatagagaag 180
agtgacagaa gctataaata ggtacacagg aagcaaatag gcttgatgatt ggatggcact 240
acatgttcat aggagtggat tgcagagcat gtgttctacc aataatgaga gcttatcttt 300
catgatt 307

<210> 4935
<211> 417
<212> DNA
<213> Triticum aestivum
<223> Clone ID: LIB104-005-Q1-E1-C2
<400> 4935

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ctgctgggtgc tggtaggtagc ggcggcgggt gtgggtggctg cggtaggtcgc gttccaccgg 120
aggccaaccg cagaactcgt gtcgcccctt acccgcagcc ttcgcgaagg tgatggacgc 180
gccgggtgctc gtgacgtgca cgcaccgctg cgcttgtagg agagagatca gagcaagaag 240
agagcaacca gcgtgaaaaa aaacattagc aaatcagaat tgttgctcga tccccttggt 300
ggggtgggta caacttagtg tttagatcat cgttgatgac aattgacgcc gtogatctgt 360

ttaattgtgt tcctttggct ggttgggtgct tcagtcgcag ccaagaattg gcgtgga 417

<210> 4936

<211> 448

<212> DNA

<213> Triticum aestivum

<223> unsure at all n locations

<223> Clone ID: LIB104-005-Q1-E1-C6

<400> 4936

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gacgggggagc acaaggaggg catgatggag aagatcaagg acaagatcag cggcgacggc 120

cacggcgacg gcaagaagga cggcgaccac aaggagaaga aggacaagaa gaagaaggac 180

aagaagcacg gcgagggcca caaggacgac gacggccacg gcagcagcag cagcgacagc 240

gacagcgact gagccagctc cggcccgcgc tccggcagcg tgcaggcgag atcgatgatg 300

aacacttggg agaagtgtga cagacatata tggtgcaggg tttggagcgt gtggtagcat 360

atgtatgtaa tgcgtgacat gcctcatgga tcntgtgatg tataataatt agccggccgc 420

actgcactga acngtgcctt gtaataat 448

<210> 4937

<211> 405

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-005-Q1-E1-C7

<400> 4937

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attcaattga gtatggttac cgggtcccct ttggcagcgt acatgtcttc atcggcaaga 120

tcggtgagcc tgggactgag ccggacatct acaccgaccc cgtcgagacg gctcagcgtg 180

cgagatttac tcagggtaaa ccggccatga agtgtgcctt cgttggagtc atctacggag 240

gagagcgcgga ggacgaatca gagcacgaca acgagaccgt cgtctattct ggcgacgagt 300

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ccgatggcga tagtattccg gacccccag gccagatcaa ccggg 405

<210> 4938
 <211> 438
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-005-Q1-E1-D10

<400> 4938

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 ggaagcaggc gagcaagttc aaggagcagg tcgccaagca gcagcaggct gtgataaaac 120
 aattcagcac tactggttac gagcgttcag attctgttgt cattgatgaa gttgaattac 180
 agcaacatca aaggcttgag aaattgtaca gttctactcg ttctggaagg gatttccaaa 240
 aggacatagt tcgagcagct gaaggcttgg tgtctattgg aagcaagcat attgaagtgg 300
 gaacaaaatt ttctgaggat tgctatagat atggaggtga aaataatgct gatggtgaag 360
 ctcttcaaaa agccgcatca ctgtatggag gtgctttgag aaatgttgaa aaagagtatg 420
 aagatttcaa tagaactt 438

<210> 4939
 <211> 414
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-005-Q1-E1-D11

<400> 4939

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 ccaactagaa acgaaaaata ttttaaatta gattgttttt ttgagacaat ctgcggaac 120
 tttatttaaa ccaaaccaat gttcagaggt acaaaagaaa gatcaccagg gtgtcctaata 180
 caaacatggc ggcccatcct taactttaaa ctatgcttcg ctagattatg agccttgaaa 240
 ttcgaactcc taaactcata aacaaagcta catctactaa aagaagagtt ttgatctatt 300
 atttcatgta agatcccaca tgctggcgtc caactgggct gaccattag cgtgaagttc 360
 acacgtagtg cacagtagct actcgggtca tgctgattgg aaatatcact atag 414

<210> 4940
 <211> 444
 <212> DNA
 <213> Triticum aestivum

<223> unsure at all n locations
<223> Clone ID: LIB104-005-Q1-E1-D2

<400> 4940

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ataagacggg gggataaaaa gaagggaaaa tgaaaatagt taattaagtt cagaatggta 180
ttccataaag gaaaggaatt ccaatcaaaa caaaaaatac tgagtctctt aaacaagaca 240
ttctaaaact taggtaatth atagtcatta ggatttttagt tctatatgaa gtaaggacta 300
ttcgataatt tcttataaac ataggthttc attggaattc actcaatcag ttaattatgg 360
aacaagagag ctgtttcatc tttgtthttaa agaaatataa aaatgaatta tgaatagaaa 420
gtanaatgat tcaactthttt thtt 444

<210> 4941
<211> 422
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-005-Q1-E1-D5

<400> 4941

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aacatcgtgt cccttgtctc ctgttaccat ccgcctagac gcacagttcg ggaccctac 120
ccgagatccg ccggtthtca caccgacaaa gatctaaaac ttattgatgt gtcccttatt 180
aaatctthgt thtgcaatat gaatcttgat gaaactgaat atgatcttcc thtacctaga 240
aggcattcta agaattcgga gthtctagat ctgtagatg aaattgatga aagtgggatt 300
gaaaaacaat aaaaacctag atgttgctaa acccactatt ttggatctca aggaatttaa 360
ttatgaaaat tgctctthga thggttgat thccttgthg caatccgtgc tagattctcc 420
tc 422

<210> 4942
<211> 455
<212> DNA
<213> Triticum aestivum

<223> unsure at all n locations
<223> Clone ID: LIB104-005-Q1-E1-D6

<400> 4942

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ggcatctcga tgacgagggc gtggctgctg cgttcgttct gggccaacag gtaagtgtc 120
tagcccattht agtgatccat aggtatatag gcttatcaga aatcccaggg tgggccgcgg 180
cccaccctgg ccaccctgta gctccgcccc tgacgggata catgggtagg gacttcatgg 240
aaggcggact ccatttaatc ctttctagct gcttactgaa caccaagccc tatttgatat 300
gttgaatgat tgttatatag gtgaaggaat cgacgaagaa gcttccgttc agcatgctat 360
gtcaatggaa gaatatctga agcagacctc tgctacttct ctattctctt tcattcgtcg 420
tgggcagccg aattggttga aataattatg ggcag 455

<210> 4943
<211> 312
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-005-Q1-E1-D7

<400> 4943

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gtgaaatatg gggcttgacg catcaatgcg atcaaaccct acgtagaatg acatgagact 180
ctcatagctc gtcatacaag ctcaccacat cacagatcag aggacgtcat tgaacgaact 240
gacaactgtg atggaacgag agttacccca tatgatcacc atgcataact tggtcattc 300
accacgtgac at 312

<210> 4944
<211> 429
<212> DNA
<213> Triticum aestivum

<223> unsure at all n locations
<223> Clone ID: LIB104-005-Q1-E1-D8

<400> 4944

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tcctggctag gttggtttat tcagttgcta aaacgagaat gtacaactta gttatttttc 180
tagatggcta gaaaatagtg gtatcaataa atcttattag gaatttccat catacttaat 240
agacgtacaa acaatttgat tttttttttt gtgaagtaca cattgtttcc aatgtttgga 300
ttaccgcccg tanatggggg gctaccgt tggctcttga gaaaaaacga gacatttctt 360
aactactctt tttgtagaac taattttgtg caatctttca tttttaaacg gaatgcatta 420
cacattttg 429

<210> 4945
<211> 446
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<223> unsure at all n locations
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<400> 4945

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ttaggaggaa gccaaaggcca gccgtgctgg tgacgacgag gtaattgttc tttcctccgg 180
ctcagagtct gtgccaaaac agaaaactcg tcaggcaagc cggaaagtaa ggttttctca 240
tcctttggct tatttggatc ccaactttat tttgaaaaag cagcaacatg aagcttgccg 300
cacgaccggg aatagggaaa gcggtatcct ttcctccggc ttaccgaaca cccagcccc 360
tcacaaacgt cgtccagagg tctcaacaaa ctctgactta acttatccca aggccggtct 420
nttacgacaa cctcttaacc cttca 446

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aagaatgatg acctcgaaga gtcceaagaa ctcggttctg gaacttttgg aactgtatat 180
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gctgatctgc accaccccaa tgttgtggcc ttttacggcg ttgttctaga tgggcctggg 360
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<210> 4947
<211> 427
<212> DNA
<213> Triticum aestivum
<223> Clone ID: LIB104-005-Q1-E1-E5
<400> 4947

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ccgaaccag tggaggacaa cgcaacggcg gcaccgtcac aaccaatggc accacctcaa 180
ccattggcgg aaaacgcaac ggcagcacca ccgcaaccaa tggcgcgaaa gcgcatctgt 240
cgttgtggtg gtgccaccac caccgccaga cggcaccacg acattcctct gcctcactct 300
cgctttcttc atccctcccc tcggcgtttt cctcaagtac aaatgtgaga ttgaattctg 360
gatctgcctc atcctaacat tcttggccta cgcgccgggc atcatctacg ccgtctgggt 420
gatcctg 427

<210> 4948
<211> 446
<212> DNA
<213> Triticum aestivum
<223> Clone ID: LIB104-005-Q1-E1-E8
<400> 4948

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cttgccact tcgttgga cccaaaccca ggccatatca gacactgagc ataagcactt 180
 tgccatgtag atagagaaga gtgacagaag ctataaatag gtacacagga agcaaataagg 240
 tttgtgattg gatggcacta catgttcata ggagtggatt gcagagcatg tgttctacca 300
 ataatgagag cttatctttc atgatttttc ttttgtttgg gtttgcactg aattttgttt 360
 tgtgtgaagg tgtgcacagt gcagtttaac tgcactgggtg tagtcatgag tgaagaaagc 420
 ttgcattttg cagaaatatt tggat 446

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 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-005-Q1-E1-F5
 <400> 4949

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 atatagccca accctgtcgg tgtgaccgag tggaacaact cgggtggcacc gagattcata 180
 actgcaagca gttactgaaa cttggtgtga ccgaaagggtt caaatcgggt gcaccaagat 240
 tgagaacctg gatcgactta gtgatctcgg tatgaocgaa ttggatgaat cggtcagacc 300
 gataagcaca aagaagtttt ggaagtttaa gtctatgacg aatcggagac tccgagtgtt 360
 cctcacacag agtggttcga atcttacttg atcaaatttt gtgatgtagc atgaatagag 420
 tttgagac 428

<210> 4950
 <211> 439
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-005-Q1-E1-F7
 <400> 4950

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 tatctttgggt gctgtccttg aggccgctgc ccaggcttat ggcaacgacg agagcatcga 180

ggtcattgctt gaagagcttg ccagtgaccc agagctcgt gatgagtaca tgaagcttct 240
gctggagcag gtcggcgaga ggggtggagtc cgaatccgag gccaaagacgc agtcgtgaag 300
cgtggcccgagg agtcgggtcc ggctcggtcaa gtgggcggtta catttcaggc gcggcgtggt 360
tgacaatgtg gtgaaaacat atatacagaa ctcatgactt gtggatgtaa ttgtgtctcc 420
tgactgtgga tgggtattgt 439

<210> 4951
<211> 448
<212> DNA
<213> Triticum aestivum
<223> Clone ID: LIB104-005-Q1-E1-F8
<400> 4951

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gctctcatgc ttttgcttca taatttcag atatgaagga agatgcgggc tccctaccaa 180
ttttgattcc agctattgct atgcattagg ctatgggtgt ggtgtctctt tccaatttgg 240
caagacagga cttatttctg cgggtatgtc actatatttt tctacttgat agatgtttgg 300
cattgcttaa ccatcggagt catatttact ctgtttacct cctaacttct gaccagtctt 360
ccatcatgcg aacattgtca tatgttctct tccagtttcc acgccatatt cattattgga 420
taaaacatta aatttcacaa aacaaaca 448

<210> 4952
<211> 440
<212> DNA
<213> Triticum aestivum
<223> Clone ID: LIB104-005-Q1-E1-G5
<400> 4952

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tggaccactt caggttcctc cactccaacc tgggtcctca gccaggacgc tcttagctat 180
ggttttctcc cagaatgtct cccctgtagc accaaacttg ctactgcagg ttgcagtga 240

gaataatcag caacctgtgt ggtatttcag tgacaaaggt tcgctccatg tcttctttgg 300
 tgaagatggc aaaatggagc gaacgggttt tctcgaggcc tggaaatctt tacctgatga 360
 caatgaattt tcagaagaat accccaattc tgtcatcagc agcatagatg ccaccgttga 420
 acaccttgca gcatcaaatg 440

<210> 4953
 <211> 424
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-005-Q1-E1-G7
 <400> 4953

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 acgttgtcgt tctcttgtca tgggtggagaa ggagggttgtt gatgttcacg ttggtgtact 180
 tcctcatttt cttcgtcttg gtgtgtccca cttgtggatg cttccgtatt aactcttggg 240
 tcaccttgct gtgaggtaga agcttccact tggacagacg aggtactctc cttcacctcc 300
 gttggacgaa ccttgccaat agacaagtct tggattgctt ctgaagggtc tttgtctcct 360
 acatcaattg gcaattgctc tatttgcgag cgttagatt cgtcaaactt cacatctact 420
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<210> 4954
 <211> 399
 <212> DNA
 <213> Triticum aestivum
 <223> unsure at all n locations
 <223> Clone ID: LIB104-005-Q1-E1-H5
 <400> 4954

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 atctcatatg ggccactatt agggccggag catggcaggc cattaatgga ccggatcaaa 180
 tatgggtcgg catttgggcc aaaacatggt agccagttaa tgggcccgat tactagggtc 240

ctcaaaatct tgtgggccta cagctgggcc ggcccattaa tgtcggtgaa atctcgtggg 300
 cctttagcta ggccggccca ttatgatccg caagaatctt gtgggccttt acctgngccg 360
 gccattatg gcacacaaaa atcttgtggg cctttacct 399

<210> 4955
 <211> 432
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-005-Q1-E1-H7
 <400> 4955

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 gtgggtgttcg tccgacgaag gctttaggtg agcgcgcca agaggtgaga tgccaggatg 180
 ccgtgtgagg cggcgagcat ggcgagatgc cgatgggtgct gcgtgagaag cggcaagacg 240
 tatcagaggc tggagccgtg atggactgca tcaaattggg tcgggtgaac cggccgggtcg 300
 ttctgtttgt tggactagct gttcatgcgt gagttcgttt agtcctagcc gagagtatcg 360
 ttgctagtag ttgatgcatt catgtagttg gcctgggtcac aagtgggttac cgagtcgtgt 420
 gcaacgctgg ag 432

<210> 4956
 <211> 459
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-006-Q1-E1-A1
 <400> 4956

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 aagctgttga tgtcaacatg aacaaaatgc cagatgtcgc gatgactcta gccgttgttg 180
 ccctgtttgc cgatgggtcca accgctatca gagatgttgc ctctggaga gtgaaggaaa 240
 ctgaaagaat ggtcgcgatc cggaccgagc tgacgaagct gggagcaacg gtggaggaag 300
 gcccgacta ctgcatcatc acgccgccg agaagctgaa catcacggcg atcgacacct 360

acgatgacca ccggatggcg atggccttct ccctggcggc ctgtgctgag gtgccagttc 420
 acatcagga ccctggatgc aaccgaaag aaccttccc 459

<210> 4957
 <211> 404
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-006-Q1-E1-A10
 <400> 4957

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 atttggttga aactatgcta tttatttggg tgtggactat atgtttgctt gtgaaataat 180
 gcaaaatttg tgtatgaagt agtgcaaaat ttgtgctatt tgttgaaaaa gggcggtcag 240
 ccgaccatgc cggcatatat gggtcggcgc gttgggcaca ctgccgaccc aaatctcaaa 300
 tgggacggac gccgagcggg tgaccacca aacggataaa aaacggacaa aaacaccgtc 360
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<210> 4958
 <211> 429
 <212> DNA
 <213> Triticum aestivum
 <223> unsure at all n locations
 <223> Clone ID: LIB104-006-Q1-E1-A12
 <400> 4958

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 aacatgaaac cttgcttgat gtaatgtcat gccaccaaga tgatgtggta aacaattggc 120
 atgtttgacg aaagtttga cacacacccc tcacaaaccg gagcaactca ctagaaggct 180
 cgtggttccg aaagggaaca atgcatgttt gatgacgaac aggagatagg ttcctcttac 240
 ggcccttcaa atttattcta ctctaacgtt cactattaca actgtactgt gaaaatttgg 300
 aaaattctaa gggtcatttg accttttaaa gacatttaag tgattttcaa gccatttaat 360
 gaccacaatt canatttgaa ctacatctac atgcaacgcc taaacataac ggtttgaaaa 420
 atcatattt 429

<210> 4959
 <211> 436
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: LIB104-006-Q1-E1-A2

 <400> 4959

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agcatcatgc acatattgat ctttgatggc ctccaaacca aatattttga agtcaagttg  180
tgaaagcata gtatagcgac gagacaatgc atcagcaata acattttctt tacccttctt  240
gtgtttaatg acataaggga aagtttcaat gaattcaacc catttagcat gtctacgatt  300
cagtttagct tgacttttaa tatgtttcaa agattcatga tcagaatgta taacaaattc  360
tttgggccat aaataatggt gccatgtttc taaagtccga acaagagcat aaagttcttt  420
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<210> 4960
 <211> 432
 <212> DNA
 <213> Triticum aestivum

 <223> unsure at all n locations
 <223> Clone ID: LIB104-006-Q1-E1-A6

 <400> 4960

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cgctaataaa ataatcttag atggatatca cctgatttgt tcggatgacc gatgatccat  120
tcaacgcaac agaaaacagc tcaggtagac cggcaaccca aaatagcccg gcggcttatac  180
atagcagtgg cggtcaatg cggccccggt gaattaatac agcagagggg ctcaatgttg  240
cgcatttttt aacttcgtcc gtttttttta aatctccaga cacgtatttt tgcaccatag  300
tttcgtgtag ctttctgatg tccatcttga gccggacaga taaatagtag taacaaagta  360
ttgccagtaa tggcagcgca cactgacgga gctgactgct gacgcgaccg cagtccagag  420
tggncacgt tt                                           432
  
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<210> 4961
 <211> 397
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: LIB104-006-Q1-E1-A8

 <400> 4961

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 caccatcatg ttggtgccat ctactgtaag ctgtattggc agctcggata ttctaagggt 180
 gcctgaattt atgttttagta tgacaacaaa caatttccag tatgcatgcc taccatata 240
 atgttaatgg gctgtggggc gattaccggt aacatgcttg gtcttgtgcg acctgagaat 300
 ccctgcctca cacactogac gaatttagcc catgcatctg gtatctagat acaattactc 360
 ctacaaatat tgtttctata gttgtgatct aaatgct 397

<210> 4962
 <211> 420
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: LIB104-006-Q1-E1-B10

 <400> 4962

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 gggatgccca tggcaccccc aagataatcc aaggacacca aaaagtcaaa gcttggggaa 180
 gccccggaag gcatcccctc tttcgtctac ttccatcggg aatttacttg gagttgtatt 240
 tttattcact acatgtcatg tgttttgctt ggagcgtctt gtattattcg cgtctttgct 300
 tgttcgtttt ccacaatcat ccttgctgta cacacctttt tagagagcca tacatgattt 360
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<210> 4963
 <211> 403
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-006-Q1-E1-B11

<400> 4963

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aggaccacca ggacgagatc tgcgaggtgg tgctgaccaa gagccccgac gcgtcgtgcg 180
ccgagatcga ggagttccgc gaccgcgcgc gcgtcccgt caccagcaac aacggcatga 240
agcagcaggg caccgccttc gccaacccca tcgccttctt cccaaggag ccgcgcaagg 300
agtgcggcgg catcctccag gtttacgacc tcaaggacgc acccgagaac ccatgaaccc 360
ccatcccatc catatagtct cgctcagttg cttcccatca tca 403

<210> 4964

<211> 402

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-006-Q1-E1-B12

<400> 4964

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ggtgacggcc tcacgactt cagcgagttc atctccttct gcaacgcca cccggggctc 120
atgaaggacg tcgccaagggt cttctgaatc agttcatttc acctcagccg tccgttccag 180
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ccgatccagc ctcagcttca cctgaggccg gccctaaatt tgtttgatca attcttttgc 300
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<210> 4965

<211> 423

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-006-Q1-E1-C3

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 ctgccattgg aaaaatttgt aactttttga atgtttctag tatttgtttt gatttgtttt 180
 ttatttaaca cgggtgcaga tgagctcggg ctcacaaaag catttctcaa agtctgggtct 240
 ctaaattctgg gcagtgtttg cgttattgcc gctctaggac ttgcttccc tatctctgtc 300
 ttcctttcgt ttcgttttct tcaaagtcag agaaagagac tgggtaaaca aaccaaaaat 360
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 gaa 423

<210> 4966
 <211> 404
 <212> DNA
 <213> Triticum aestivum
 <223> unsure at all n locations
 <223> Clone ID: LIB104-006-Q1-E1-C5

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 cgaagcccgg tggggggatg atgatcatgg acccatacgg gccaccatc agcgccaccc 180
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 actactggtt cgccgaggca gccgccgccg cgccgctgca gtggagcaag gacatgtaca 300
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<210> 4967
 <211> 442
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-006-Q1-E1-C7

<400> 4967
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 ttcttctctg gttctgctgg ttcccttgac ttgtaagaag gtaaacataa ttttaattaat 180

ttggaatttt taaccgaaa ttggataacg gttcaaggct tggaatgtat aaggaaggta 240
 ccttaattga ccaacaaagt gtgttttgaa cgtctctctc gcttacaaaa aaaaaaaaaa 300
 aaaagaaaaa aaaagagaaa aaaaaaaaaa agaaaaaaaa tataaaagaa aaaaacacca 360
 aaagaaaaaa atttaaccac ggtaaaaaaa aactcgtttt aagaaaaaaa aaagggggggc 420
 cccaaaaagt tttaaatttt tt 442

<210> 4968
 <211> 406
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-006-Q1-E1-C8

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 attgcaggat acacgtggca ttcaaggctc cgaaggtaga ttccgcgtcc gcaccgggtt 180
 tgcgggctcg acgcgcgcgc aaccggcttc cgccgcgaca gccaccatgc gcgccttctc 240
 tgcgcgggca gagacgacaa tgacacgcta gttcctcctt gccggcgtgc tggagcacgc 300
 gtcctcctc ctcttcgtac gctgcgtgca tagacacgac tcaaccagct gtcgcgtgc 360
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<210> 4969
 <211> 429
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-006-Q1-E1-C9

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 taagtttgtg tccctgagcg gctagcgttc cttggcctct caaactgagg ttgcgaaacc 180
 tttttcttga gtcaatttat atactgtata agaaagggtg acaagtcagg catctaatat 240
 tgtttcgtcg ccgacgtgaa ctgctagtga attgcatttt tcaagctcct gtgattcggg 300

agcattttcta ttagttacat ctgcaaagcc aagcaaaaaa aaaaaaaaaa aaaaaaaaaa 360
 aaaaaaaaaa aaaaaaaaaa aaagaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 420
 gcggggcgcc 429

<210> 4970
 <211> 439
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-006-Q1-E1-D10
 <400> 4970

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 caaggggggct cctaaggctg gtcgaggctc tgataccaaa ttttcacgcc caagatgtga 180
 ccctatccta aaggaactcg aagggtccac caaggataga agcgcatctt gaagacgctt 240
 ttgcaagatg gatatcatta catcaacact acataataga tggggataca taaaaaggc 300
 atacaatgcc acatgaatac aacatcacia tacataagag caacatccga ctatggatga 360
 aacacaaaca gaaactcaaa tgacatccac cctgctagcc caggctgccg acctggaacc 420
 tatcccctga ttaaagaag 439

<210> 4971
 <211> 414
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-006-Q1-E1-D11
 <400> 4971

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 tgaaaggcga ggatgtgaac tccctgcagc ccaaggaact gatcgccatt gaggaagctc 120
 tcacgaacgg ccagaccaac ctcagggaca agatgatgga cactggaag atgcacagga 180
 ggaatgagaa gatgctggag gaggagcaca agctgctggc tctgaggatg caccagcagg 240
 acgacctgag cagcggcatg agggagatgg agctcgggta ccatcagggt agggatttca 300
 cttcccagat gccgttcacc ttccggtgc agcccagcca cccaacttg caggaagaca 360

agtaggccac cgaatcctgc cacggcctgt gtcaactgaa gtcctcttac ctgc 414

<210> 4972
 <211> 426
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-006-Q1-E1-D3
 <400> 4972

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 cgacggcact gtgttcacga agaaaggaca tgaaggcgac gaaccattcg agttcaggac 120
 ggatgaggag cagggtcatcg aagggtctga cagcagcgtg ctcaccatga agaaaggaga 180
 ggtcgcgtca gctagaatac cacctgaaca tgcgttcgga tccaccgaga cgaagcttga 240
 tcttgctgtg gtctctccca actccaccgt cttctatgaa gtggagattg tttccttcga 300
 caaggagaaa gaatcttggg acttgaagag taatgctgag aagatcgaag cagctgctaa 360
 aaagaaagat gaaggaaatg cgtggtttta gatgggcaag tacgccaagg cttccaagag 420
 atatga 426

<210> 4973
 <211> 423
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-006-Q1-E1-D4
 <400> 4973

cgggtcgacc ggcacccct ctttcgtctt cgttcattgg taactttact tggagctata 60
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 ctttttagtt taccacaatc atccttggtg tacacacctt ttgggagaag actacttgat 180
 tataatttgc tagaatactc tatgtgcttc actcatatct tttgagcgtg atagtttttg 240
 ttctagtgtc tcaattatat ctttttagagc acggcgggtg cttaattttg aagaaattgc 300
 tagtctctca tgcttcactt atatcttttt gagagtcttt tagaacagca tggatatttc 360
 tatgggttaca aatttgggtcc tagaatgatg agcatccaag ttgggtataa taaaaactat 420
 cat 423

<210> 4974
 <211> 453
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: LIB104-006-Q1-E1-D5

 <400> 4974

gtaccagtca acaattcccg ggtcgacggg aacgagaagt gatggagcgc taaaccttga 60
 caaatctcgg ggaaaatgga gtcgaaagt cgagtttcga gaggagaaag attaactagt 120
 gtggctcgga catttcatcg aacacctcat gtgcatagga ggtgagatag agcacccaaa 180
 tgcctctccc tcgcccggcca aaaaaaacag agcactgtgg agtgctctgc cgcgggtgatg 240
 ggtatatata ggcaatttat ttgtcccggg tcatgccacg aaccggggact aaagctcccc 300
 cttctacacc ggttcaaggc atgaaccggg accaatggct gtgggccagg agcgaggacc 360
 attgggtccc gttcgtgcct agaaccggga caaatgggtc cagacaaaacc gggaccaatg 420
 ctcacgaggc cccggccggg cccctgggct cat 453

<210> 4975
 <211> 433
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: LIB104-006-Q1-E1-D8

 <400> 4975

gggtcgacgg gagcctctac ggtaccgtgc attgcccttt ctcaccttga gagttgggtgc 60
 aaacttcgcc ggtgcatcca aaccccatga tatgatacgc tctatcacac ataaacctcc 120
 ttatatcttc cttaaaacag ccaccatacc taccaattat ggcatttcca tagccattcc 180
 gagatatatt gccatggaac tttccaccgt tccgttcacg atgacatgtt tcatcattgt 240
 catattgggt ttgcatgacg atgtagtga catcgatatt gtggcaaagc caccttcata 300
 atttttcata catgtcgcgc ttgattcatt gcatatctcg gtacaccgcc ataggcattc 360
 atatagagtc atattttggt ctagtatcga gttgtaattc atgaattgta aataaaaataa 420
 agtgtgatga aca 433

<210> 4976
 <211> 434
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-006-Q1-E1-E10

<400> 4976

tacaggtcta gaattcccgg gtcgacgggt atcataaata acaataggaa aacatgatgc 60
 aaaatgaacg tatcaactcc cccaagctta gacctcgctt gtccgcaaac aaaaaccgaa 120
 atcgaaaaac atgtccacat gcttagagag agagaggtgt cgataaaaaac aaaatacggg 180
 catagaagca tgatgtttat tattatagca gcaacaaact taaacaaaat acatatcttt 240
 gtcataaata acagtaagtg attacatacg gagcaaaata agtgaatcta cactctaaaa 300
 tgtctaaaaa caagtgagtc tacatatatc cgtatgttac agttcatttg aaatgtctaa 360
 aatgacttat atttaaaaac gaaggaggta gatgggttgg ctatgacaat actaatgtga 420
 ccggaagtcc tgag 434

<210> 4977
 <211> 390
 <212> DNA
 <213> Triticum aestivum

<223> unsure at all n locations
 <223> Clone ID: LIB104-006-Q1-E1-E12

<400> 4977

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 tgaatcttac attctttaca gactatactg ttttggcaga ttgctgttat gtttgcattg 120
 tttgcatatg tttgcttggt taatgattct atttgaggat angagtgtta aatatgcaga 180
 tacatttagt attcaatggt gaacaataat ttatgtgatt ttttacaata taaaatgata 240
 agtttttgca ttggtttata ctaacctatc tcacgagttt ttgttgagtt tgggtgtggat 300
 gaagcttttg ataaaaagag aaaccatgat atgagaggaa ttaatgagac acaaaagtgc 360
 aagcttgggg atgccaagg cacccaaaga 390

<210> 4978
 <211> 212
 <212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-006-Q1-E1-E6

<400> 4978

taccagtcca gaattcccgg gtcgacgggg taaggaattg taaatatcca ttgttgtagc 60
gcgacctgaa taaaataaac gatctaagtc tctagtccaa aaaaagtcaa aagcatgtaa 120
aaaaaaaaatc ggccgctcga taggatctac gcttacatag tcgtgcatgc gacatcatac 180
ctcttctgta atgtcagcta aattcaattc ag 212

<210> 4979

<211> 404

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-006-Q1-E1-F10

<400> 4979

aattcccggg tcgacggggc attgcatgcg tatggttgct tctttaatga ttctttttga 60
ggataggact attaaatatg cagaggcatt tagtatgaaa tgttgaataa taatttttagt 120
gattttctac agtagagtat gataaggttt ttgcaatggt ttatactaac tcatctcacg 180
agtccttggt gagttttgtg tggatgaagc ttttgagatt tagggagacc gtgatatgag 240
aggaattaag gagacacaaa atctcaatct tggggatgcc caaggcatcc caagataata 300
tttcaagaag tctctagctt ctaagcttgg ggatgccccg gctggcatcc cacctttctt 360
cttcaataaa ctatcggtta atattggttg atcctaagtt tttg 404

<210> 4980

<211> 399

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-006-Q1-E1-F11

<400> 4980

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aagaagatga ccaacgagaa gtacctggcg gggcggttcc gctacttcga caaggacggc 120
agcggcttca tcgagatcga cgagctccgg caggagctgg ggccaacga gcaggccatc 180

ctcgagatca tccgcgacgt cgacaccgac cgggacggac gcatcagcta ccaggagttc 240
gagctgatga tgaagtccgg ggcggactgg aggacccgcc agttctcgcg ggccaacttc 300
agcacctca gccggaaact atgcaaagaa gaaacttcct cctcgtgaat tcaatttggt 360
ctactgctag atgtgattct ttttgtgcat gtaagctgc 399

<210> 4981
<211> 410
<212> DNA
<213> Triticum aestivum
<223> Clone ID: LIB104-006-Q1-E1-F12
<400> 4981

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tgatgaaaag aaacccgata tcacgaaacg accacacact cctattggag atgatgtgga 120
atgcaagaag ccaaagatag cagaaggctc aagggtgcaa ggagaagaac ctgaggctgg 180
agggataaag aattcctcct gggctctgatg acaggggaat gcagtaaaca ccagaagcat 240
caaaactatg atctggtaca gtatcctgaa tacactatct tctggattat gaatgaattc 300
tgaagcatgg ggctataagt gaattatgta acatggattt gtaactatgg tggatgtaa 360
gttaatgttc tatcacgtac atgccgccgc agcactacta cgttccgaac 410

<210> 4982
<211> 435
<212> DNA
<213> Triticum aestivum
<223> Clone ID: LIB104-006-Q1-E1-F4
<400> 4982

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cgctggagtg ggccgtccgg aacctgctcc gccggggcga caccgtcgtc gtcctccacg 120
tccagcgcca cggcggggag gaggccaagc acgccgtttg ggccaagtcc ggatccccac 180
tcatccctct gtccgagtac cgggagccgg aggtgatgaa gaactacggc gtgacctgcg 240
acgccgaggt gctcgacatg ctcgacaccg ccgcgcgcga gctcgagctg aagggtggtg 300
cgaaggtgta ctggggcgac gccagggaga agctctgcga cgcggtggag gagcagaaga 360

tcgacacccat cgtcatgggc agccgcggcc tcggtacccat ccagaggatt cttctgggaa 420
gtgtgaccaa ctacg 435

<210> 4983
<211> 423
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-006-Q1-E1-F6

<400> 4983

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aagccaacca ctggatgtgg ttttcaggga tttttgcagt gggatttgta ggggtactatg 120
ctgcgctgtg tttgggattt gaaataaaac gatgggagat gtgccacgct cttaaagtcc 180
agtcttctgc tctaattctg ctaaattact tgttgcattt tgcagcttgt ctacctttac 240
agtgactacc ttcttttggc tgtgctcatt tggcaaaaca gtttgtctaa ttcacatcta 300
cttcgtgtct ttttagacat ttcaaataga caacaacata cggatgtatg tagacatatt 360
ttatagtgtg gatccattca ttttgtccg tatgttgtca cttgttggaa tctctagaaa 420
gac 423

<210> 4984
<211> 389
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-006-Q1-E1-F7

<400> 4984

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caggctctgc gcgtccattg tgcggagctg cctcaaggag ccctacaagt ccgaggccgc 120
cgaagtcgag aaggctccact actcccgctc caagtggacc gacggaaagc agcccaagcc 180
caccatctgc gaagatgata aatgaaagat ccggtgccat ggtgacagag tccttccctac 240
ggacgttttc aaaagctact gtgtttcgtg ctggccattc tacctaaaac tcgttatctg 300
ttagatttat gtttcacgct caagaataaa ttatttacgt gacattggat ctgttccgac 360
accattttat tttaactttt aatcgctac 389

<210> 4985
 <211> 418
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: LIB104-006-Q1-E1-F8

 <400> 4985

aattcccgagg tcgacgggag agaggaggag cttggagggtg gttcatagca cggtgctccc 60
 ctcccttgct ctgcgttttc gttgtggtga agatggcgat atcgatggag cgcaggaaga 120
 tgaagcccggt ccttgctctc gtgctgctgc tgtcgtgcca tcttcttctt ccgctggctc 180
 cctccgtgcc tgtgtcgagt aagtgtttga cctccaaccc catgcacgca tgcattggacc 240
 ttacttaata tcagttcatc ttctttcttg gcatgtgtat gtgcatgcat gcatcttaat 300
 tttgagcctt gctctcgat gtaggaagcg tggccttggg aaatcatcta gcctcagctt 360
 ctagtctaac tctggaggcg gcgcctgttc aggtcaatct ctcactctac ctgatgcc 418

<210> 4986
 <211> 396
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: LIB104-006-Q1-E1-F9

 <400> 4986

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 gtaaagggga tcaggggggc gaggctggcc aggatgagca ggtgaagaaa aagcgcggga 120
 ggccaaggaa gtataagcct gatgggtcag tgacgttggg gctctcgcca tctccatcca 180
 cgcctcattc gtcgagccca ggaatgggag cgatgggtac cacacctggc tcaggatttg 240
 ggccggggac agggtcaggg ggttctggtt caggcgcact gacggagaaa cgtggcagag 300
 ggcgccacc tgggtccggg aagatgcagc agctggcttc gcttgaaaaa tggtttcttg 360
 gctctgttg aacagggttt actcctcacg tgatta 396

<210> 4987
 <211> 412
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-006-Q1-E1-G11

<400> 4987

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ttgccaagaa gtagctcgag gataaggaag gtaagtaata cttatgaaa gtagtacctt 180
atagaaaagg atttggttgc aaaaaatgac aagaataacg tgggtattgc agggggccacg 240
aatgaggtgg cgaccctgaa ggaggcgggtg tccaaggctg aaagcagtgc ggccttgagg 300
cgaccgagc gagagaagca agaggcgcgg gtggcggagg tgcggcaaga gctccaggct 360
ctcgtggaaa aacatgagag tttggagggt gactcgaggg cccgagagtc cg 412

<210> 4988

<211> 445

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-006-Q1-E1-G3

<400> 4988

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tcgatcatcg gtatctcaat acctagttca atctcattac cggcaagtct ctttactcgt 120
tccgtaatgc atcatccgc aactaactca ttagtcacat tgcattgcaag gcttatagtg 180
atgtacatta ccgagagggc ccagagatac ctattcgaca atcggagtga caaatcctaa 240
tctcgatcta tgccaactca acaaacacca tcggagacac ctgtagagca cctttataat 300
caccagtta cgttgtgacg tttggtagca caaaagtgt tcctccggtg ttcgggagtt 360
gcataatctc atagttatag gaacatgtat aagtcatgaa gaaagcaata gcaacatact 420
aaacgatcaa gtgctaagct aacag 445

<210> 4989

<211> 421

<212> DNA

<213> Triticum aestivum

<223> unsure at all n locations

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<400> 4989

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 acgcttactg cgaccgtcag tctgtggatc tcaactccat tgctttcctt tttgatggtc 180
 gtaggctccg tggtagagcag acccctgatg agcttgagat ggaggaaggc gacgagatcg 240
 acgccatgct tcaccagacc ggaggggtgct ttcttgcccc ttagaaggag cttgctgcag 300
 cctggctggt ctatgtcgta tgctaccttt agaactagag taaaatgtaa gaagtgaag 360
 aacttgtgag gctatggttc tgtgccatag cctgangggg ggtctggagg tgaaacaaca 420
 t 421

<210> 4990
 <211> 422
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-006-Q1-E1-G8
 <400> 4990

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 gtgcagctta caaatggtga aatggccgga gcgatgatgt ggagatcttt gtaaagaaga 120
 caagacaatg gaatagtaag aaatacaaaa tagggctact ggtgaaatac atgagctgag 180
 aagccgcaaa atagcgcttt gctggttaac cgggttaaaa tatgttccca ttgcctgtgg 240
 gatggggctg aatgcggaga ctggttgtag ttcataggga gtagtgtaag tttcactggt 300
 agcacctagc tagctgagat ttcacaatta ctaatattga tttttgaaca tgttgactgg 360
 attatattga tttcgtatct tgctaagagc ctaagatgct aaggggcaac cttttgatgg 420
 tc 422

<210> 4991
 <211> 408
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-006-Q1-E1-G9
 <400> 4991

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ccacgctcaa gcgcaactgg aagcgctccg ccatcatcaa catcgtcttc ctcgctttca 120
tcgtcatcgt ctactccgtc ggctgctgcg ccttcaggaa caaccgccgc gaccaccgca 180
acggcgggcg gtacaagcag cagggcgcggt acgcttgatc gcgcgcttgg ctcggttatt 240
tattgcttgg attggatgga tgcgatcgtc tcgtcgtgtc atgcattctc gtcgtcgtgt 300
ttctcttagg atggcctgat ctagctttgt acaggcgaga tgtgctctga tcacctacta 360
gttaggtttt actccgtggt catgaggagg gatgtgtata tatatttt 408

<210> 4992
<211> 422
<212> DNA
<213> Triticum aestivum
<223> Clone ID: LIB104-006-Q1-E1-H11
<400> 4992

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gaaaaaactt gctcttcttc cataaaaaat tcttctaaaa atgccgaacc caaccgttgc 120
ataaaagtgc gtaccgtgct tttatgttta cgagctaaag ttctagcgca tgaaagtcga 180
agtatatact ttagtcgata caaagtcctg tttttcgaag atccactatg ataataaaaa 240
agatttctac atatccgacc aaatcgatca agaatatccc aatctgataa atctgtccaa 300
atgggtttac taataggatg ccccgatcca gtacaaaatt gagcttttga taagtatcct 360
atgaggagag tagcggggac tatggtatcg aatttttttc attcgagtat ctattagaaa 420
tg 422

<210> 4993
<211> 452
<212> DNA
<213> Triticum aestivum
<223> Clone ID: LIB104-006-Q1-E1-H7
<400> 4993

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atgtgcaagg gtatgatata cgtgaacggt gaaggcatgg gtcgctactg gacgtcattc 120
ataactcctg gcaaagtcgc ttcccaggca gtgtaccata ttccacggcc atttttgaaa 180

tccaagaaca acctattggt tgtatttgag gaggagcttg gcaagccgga aggcatactc 240
atccagacag tgaggagaga tgacatctgc gtgtttatct cggagcaciaa ccctgcgcag 300
ataaagccat gggacgagca tggaggccag atcaagctca tagccgaaga ccacaacact 360
cggggattct tgaactgccc cccgaagaag accatccagg aggtagtctt tgccagcttc 420
ggcaaccggg tggggtcacg cgccaacttc ac 452

<210> 4994
<211> 413
<212> DNA
<213> Triticum aestivum
<223> Clone ID: LIB104-006-Q1-E1-H8
<400> 4994

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acgacatatt acatctcaag gggaacaata caaggaggcc acatcagttc atcgagtcta 180
tcgacgaatg ataaaggata cagtttcaag cgaatatgag ggtgtaacaa actgatgtat 240
cttgggggca ttctttgcct gagactgttt ctgttgagc aaagtgtttg taccataatg 300
atctagatta tctatgtgga cctatatatt attgtcagca caacatggaa tgaatttgaa 360
tgtcaagtac aaaccacggt attcgggcat gaccgatcta aaaaaaaaaa taa 413

<210> 4995
<211> 371
<212> DNA
<213> Triticum aestivum
<223> Clone ID: LIB104-006-Q1-E1-H9
<400> 4995

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cctggagacc ggccgcaacg tggagatgcc tggccagggc accaacgcgg agcagctcgc 120
caggttcgca aagcagctct ccgacgagcg ccgccgccgc aaaaaggcgc ttcagggttaa 180
ctagcagctg gccgccggt cgctcgactg tgttgaatct tgctcgtttg gtggatgttt 240
tccattcagt tctttttctt ggtacagcga tgtacagtaa tattgtacag ttatgtgaga 300

gtattgtgcc acggttggaa aatatactaa ggggtgtacct gttttgctgg agcgagtgtt 360
 gatcaagatc g 371

<210> 4996
 <211> 405
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-007-Q1-E1-A1
 <400> 4996

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 atgacgagga taggcagcgg cgatacaaga agcgcgacga cgacgacgat gatgagagga 120
 agccacggca caagaagcac gacgatgatg acgacgacga tggcgagagg aagccgcgggt 180
 acaagaaacg tgacgacgac gatgatgatg aggatgacag gaagccgcgt tacaagaagc 240
 gtgacgacga cgacgacgat gatagaaagc cacgttataa gaagcacgac gacgatgacg 300
 acgacgacga tgagaggaag cagcgtcgcg ggaacaaccg ccgccgccat gattacgatg 360
 actgatcaag gcatcctgac atgagtttag ctgacgctaa ataag 405

<210> 4997
 <211> 444
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-007-Q1-E1-A7
 <400> 4997

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 ctgatgttag aagttgattc cttgtgtgag ggtgcggatg taacacaaca tgtaattctt 180
 aatatccaca tgcctcacca aaacaatgta cggctaacc ccaattatga cgttatcaag 240
 ct cattataa atatgcatgt aataaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 300
 aaaaaaaaaa aaaaaaaaaa aattaaaaaa aaaaaaaaaa aaaaaaaaaa aaaagcggcc 360
 gcccaaaagg ttcaaaccctt acttaccctt gaatgcaact tcaaaccctt tcaaaagtgt 420
 caccaaaatt caattcaagg gccg 444

<210> 4998
 <211> 233
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-007-Q1-E1-B6

<400> 4998

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 taataagggtg gtgtattacc accatgcccg ttgagctgat gtttgtttca gctagagaaa 120
 tcgttacgcc cgctcataat tcctttttcg acgctctgga gaataataac tactggtata 180
 tcattctata tcaaagccgg cttgtgaaat aaatgatccg ccgtcttgcc ttc 233

<210> 4999
 <211> 464
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-007-Q1-E1-B8

<400> 4999

taccgatcca gaattcgcg gtcgacgggc agactgttct gtttttgaca gattctgttt 60
 ttcgtgtgtt gtttgcttat ttcgatgcat ctatggctag taaattagtt tataaaccat 120
 agagaacttg gattacagta ggtttaaaac caaaataaat aaataatgag ttcattgcag 180
 taccttatgt ggtgggttttg ttttctttca ctaacggagc ttataagatt tcctgttgag 240
 ttttgtgttg tgaagttttc aagttttggg taaagctttt atggactatg gaataaaggg 300
 tggcaagagc ctaagcttgg ggatgcccac ggtaccccaa gatattcaag aatagccaaa 360
 atcctaagct tgggggatgc cccgggaagg catccctctt ttogtctctg ttcattggta 420
 actttatttg gagctatatatt tttattcgcc acatgatatg tggt 464

<210> 5000
 <211> 469
 <212> DNA
 <213> Triticum aestivum

<223> unsure at all n locations
 <223> Clone ID: LIB104-007-Q1-E1-C2

<400> 5000

cggtccagaa atcncgggtc gacggggctg acgcgtggat gcctattggt cccggttgat 60
gccaccaacc gggaccaaag ggtctcctga ctgggctctg cacactgccc acgtggatgg 120
gctttagtcc cggttctgga ttgaaccggg actaaagggt ggaggtatta gtaccgacac 180
tttagtcccg gttcaggaac cgggactaaa ggcccttacg aatcgggact ataggccctt 240
tttctaccag tgcagccaca catgacggcc accgtcgaga gataaagcat gatttgctaa 300
gttgtgagct tcaaaattca agctcctaaa ttcattggcta gatttacaga aatcaaaagt 360
ggcatattat ttcattgatg gtagctccat aaacagatga gttttccttc ttcaagtcta 420
ccancaccac tttgcaatcc gaaggcaact tggaaatcac acacataaa 469

<210> 5001

<211> 416

<212> DNA

<213> Triticum aestivum

<223> unsure at all n locations

<223> Clone ID: LIB104-007-Q1-E1-C5

<400> 5001

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aggacaagaa gcacggcgag ggccacaagg acgacgacgg ccacggcagc agcagcagcg 120
acagcgacag cgactgagcc agctccggcc gcgctccggc agcagcgtgc agtgtaggag 180
agatcgatga acgcttgagg gaagtgtggc atacatatat gttgcagggt ttggagcgtg 240
tggtagcata tgtatgtaat gcgtgacatg tctcatggat cttgtgatgt ataataatta 300
gccggctgca ctgactgca cggtgcttgt aataataacg ttaatgaatc atgttggtat 360
tgatgcaaaa naaaaaaaaa aaatcaaaaa atagcaacat taaaaaaaaatg ttaacg 416

<210> 5002

<211> 346

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-007-Q1-E1-C6

<400> 5002

taccgatcca gaattcgagg gtcgacggga gcatccccgg gatggagcct gtcaagggtg 60

acgcggcgcg gcccatcgcc gtggcgcccc ggtccatcgt gttcgtccac atg'ccggatt 120
 accatgcccc tgcgtgtgct tagttagggc tttttgggtg tcttgttggt ataggtagtg 180
 gtgataaaag ggtggccttgc taagcatgtc catcctagct agggtagtta taagatggct 240
 gaagagagtg tgtggcctttg tgtgattaga tgtaataagt ttggagggaa aattgaatta 300
 gtgaaacaag aggcaatggg aataaactct ttcttggttt cttctg 346

<210> 5003
 <211> 456
 <212> DNA
 <213> Triticum aestivum

<223> unsure at all n locations
 <223> Clone ID: LIB104-007-Q1-E1-C7

<400> 5003

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 aggtaggtat ggtggatttt ttgaggaagg tatatggtgg gtgtagtgca ccggcgaaag 120
 ttgtgtggta ctagagaggc tagtagttgt ggaaggggtga gagtgcgat aatccgtgga 180
 ctcaacatta gtcataaaga actcacatac ttgttgcaaa aaattattag ctatcgaaac 240
 aaagtactac acgcatgctc ctaggggggt agattggtag gaaaagacca tcgctcgtcc 300
 ccgaccgcca ttcataagga agacaatcaa agaataaatc atgctccgaa tcattgggac 360
 accttctaga taaagttgac tcatctccag tcncatcttt atcaagattt atattagaaa 420
 caaagattca ataggagtca caccaatcac tttaag 456

<210> 5004
 <211> 419
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-007-Q1-E1-D1

<400> 5004

ggtccagaat atccgggtcg acgccaagaa aggcttctgt caaatatatc atcagtatca 60
 atcactatat gacaccacac aacagatatg ctgctgtcag cagtgtcttc taaatagaca 120
 ctgcaattat cttatacatc attactgttg tcagcaatgc tctctaaata gacactgcaa 180

ttatcatgta catcattgct gctgcaataa accactaaga attattcaat atctagccta 240
 ggccttcgt tatcatcaac cgagggttga ggaggagttta caaaatctga atgagaaacc 300
 aagggtattgt ccaagtcagc gacatctttg ttatcttcag agctgttaga agcagctgag 360
 atggcgtcac ccgattctga atgtgttctg tccacatatg ctccgggttaa ggagctctc 419

<210> 5005
 <211> 453
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-007-Q1-E1-D5
 <400> 5005

gtaccgatca agaattcccg ggtcgacggg gaaaacggcc agcccatgga tgaggagtat 60
 gaggagcagg ttccagatta ctcgagagcc tattctgggtg ggttgagacc ccatgcccat 120
 gtcatgttgg atgatgagac cgaggatgat gatgaagacg ctgaagggga cggagagggc 180
 gacgaggaag aatacgacgt gaacctatgct tcggctgatg ttgatgatga gatggacgag 240
 gatgatgatg atataggtaa tgatggggat gatgggtgggtg atggagttga ggtgaatgca 300
 gatgaagatg aaggcgcgac ctcatactcg tcagagtaca gtgaataaga gcttgtctca 360
 tgtgaccatt tacgcacgta gtgatactgg tggacaataa taagcctttt ggcctttttt 420
 tgggggcaaa gtgggctaga cgtggaacgg gga 453

<210> 5006
 <211> 402
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-007-Q1-E1-D8
 <400> 5006

aattcgcggg tcgacgggca cgatcacgga ttcgctcggc agatcagcgc gcaccagccc 60
 ccaagcctcc ggatcctcct tcgtcgtcct cccacccgca agcttcagcc atggcaggaa 120
 tggcaccaga gggttcccag tttgatgcta agcagtatga cagcaagatg accgagttac 180
 tgaaccaagg tgacaccggg gagtttttca cctcgtatga tgagggtgcac gaaagttttg 240
 atgacatggg cctccaatag aaccttctta gaggcattca cgcttatggg tttgagaagc 300

catcagccat tcagcaaaga ggaattgttc ctttctgcaa ggtcttgat gtgattcagc 360
aagctcagtc tggaacagga aaaactgccca ctttctgttc tg 402

<210> 5007
<211> 102
<212> DNA
<213> Triticum aestivum
<223> Clone ID: LIB104-007-Q1-E1-E12
<400> 5007

agtcgtatta gtcctaaaaa aggggcggcc ctaaaggatc aagccttact tacccttgca 60
ggcaagttca taccctcct aaattgtcac caaaattcaa tt 102

<210> 5008
<211> 454
<212> DNA
<213> Triticum aestivum
<223> Clone ID: LIB104-007-Q1-E1-E5
<400> 5008

gtaccgatca aaaattcccg ggtcgacggg cggcgacagt gccggccacg gtggcgagct 60
gggcgtcttg aagcggtcgt cgtcgtaaa tgccgacagg ggcagagaat ccacgatgaa 120
cgctgctagc accacgggtg gtggttgcaa gctggagctt gcggcggagg aggtggacgg 180
cgtcgcgcc cgctgcatcc cggccgggag gaaaccacgc ggcagcagca gcaagaagtc 240
tccgaccacc cagtcacag ttagcagccg gcgcggcgac caaccggaaa ctaccgacga 300
cggacggact gactgatttc acccaagaaa actcatgaaa acatactagt actagcatca 360
aaatgttgat cgacgtgctt ccgctgcaga ctgaacgaat gtcttgctac ggcacgcgct 420
cttgcatcga ctaactttcc tttttaaaat ttcc 454

<210> 5009
<211> 406
<212> DNA
<213> Triticum aestivum
<223> Clone ID: LIB104-007-Q1-E1-E7
<400> 5009

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 ctccgtgacc agcacggtat cccctcgtg aagagcggtta cgggaagcaa gatcctccgc 120
 atcctcaagg ctcattggcct ggctccgga atcccagagg atctgtactt tttgattaag 180
 aaggctgtcg ccattaggaa gcatcttgag aggaacagga aggacaaaga ctccaaattc 240
 aggctcattc ttgttgagag caggatccag cgtcttgccc gttactacaa gcgcaccaag 300
 aagctcccg ccaactggaa gtacgagtct accactgcca gcaactctggt ggcttatgat 360
 ggctcttcat ctggtgtgct cttaccggct tcatgatggt cttggt 406

<210> 5010
 <211> 456
 <212> DNA
 <213> Triticum aestivum

 <223> unsure at all n locations
 <223> Clone ID: LIB104-007-Q1-E1-E8

 <400> 5010

aattcgcggg tcgacgggga gaaacatcat gagatccaac tataatagca aagctcggga 60
 tacatcaaga tcgtgccata gagggaaacac gagagagaa acgagagaga gagagagaga 120
 gatcaaacac atagctactg gtacataccc tcagcctcga gggatgaacta ctccctcctc 180
 gtcattggaga gcgcggggat gatgaagatg gccaccgggtg atgggttcccc cctccggcag 240
 ggtgtcggga agggctcccg agagggtttt ggtggctaca gaggcttgcg gcggcggaac 300
 ttccgatcta ggtaattcc cgaaagtctt agtatttata ggaattattg gcgttggttt 360
 cagctcaggg ggggtctcccg gccgtccacg agatangggg gcgcgcctt ctaactcgtg 420
 ggcatcccg accctctctg gcccaactcc gatgct 456

<210> 5011
 <211> 407
 <212> DNA
 <213> Triticum aestivum

 <223> unsure at all n locations
 <223> Clone ID: LIB104-007-Q1-E1-F7

 <400> 5011

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gccttgggac atcctccac ctcttggcc gccaccctt gtcctatat aagtagatcc 120
atctagtagc ttttctggg gatttgttta gttaaaagtt agccaacgca acttcgtgta 180
cttcgtttgt gtccaacgac cagaccaaga ccgctttcgg atccccacct ttatcaatac 240
ttcatacata ttgcaatat tcagattgct tttatcatat tcttgctcgt tcttcgattg 300
cttgcaggaa tagaccttcg tggtcagggt gatcgtgcna cggcgtggtc aataacctct 360
ggagattggt ttagcgattg ctaaggcgca acgtcgtgca cgtttgt 407

<210> 5012
<211> 400
<212> DNA
<213> Triticum aestivum
<223> Clone ID: LIB104-007-Q1-E1-G5
<400> 5012

gtaccgatca agaattcgcg ggtcgacggg ggaaaataca ttctgcatct cccattgccc 60
atggttagcag acgctcatgg aggagtgcgc aaaagactgc ggatcagaaa ccctcagagc 120
cagtcaatac tcggcctcgc cgtactccga gcagaagtca ttatcacgca gcatcccggc 180
ggactatacg gctgagctgt ctgatgccat caagctgcac atcggggtgt aatcacagat 240
agcatatgca tctatatgat gctataagca attgacgata tagagtaa at agtatatgca 300
tgttgctgaa atgtggcgcg gatattagat atgactagcg tgcattcggt agtttgtaaa 360
aatgcatct tgatgttccg tgcagggcac tcgaaacgat 400

<210> 5013
<211> 399
<212> DNA
<213> Triticum aestivum
<223> Clone ID: LIB104-007-Q1-E1-G7
<400> 5013

gtaccgatca agaattcgcg ggtcgacggg gattacgatg cacgggtcaaa gggaaatggt 60
taccaaagga gggcggggca ccaatacgac ggctacgact agtctcacat ttgctctgct 120
ggcgaatggt cgcattccat ttgggtgctct tgatctgggt cggcctggcc atatttttgt 180
cacaacaaag cgcgattacc tggagaactt gcgttttgct tagctgctat tgagcatgac 240

tcgtttctga tgggactctt tttagtgttt ttgctacatg atcgtgtcgc ctatctggta 300
ctatgaacta aacatgggaa aagaatggat cagtgttagt tgatccttgg tcaaaaaaaaa 360
aaaaaagaaa aaaaaaaaaag aaaaggggaa ggaggagag 399

<210> 5014
<211> 407
<212> DNA
<213> Triticum aestivum
<223> Clone ID: LIB104-007-Q1-E1-H5
<400> 5014

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gcccttttag tcccgggttg tccaacgaac cgggaccaa gagcggcatt ggtaccggtt 120
ggttccgtgt aactactttt ttatcttctg cagctatttt tttgttgatt cttcctgcag 180
ctgttttttt agtcccacct cgccaagcga gaggcagtcg cagttgttta taagccctga 240
gtgcagagat gatgacgaag aggctcaatg ctctgcata ttggttagct tcaagccttg 300
aggaatacgg tagactgcac agagctatgt gcagtgcagt tgacactatt ccgaaaggct 360
tgaagcaaata ttaacgagca ttgcgcccct tttttatttt taatgac 407

<210> 5015
<211> 413
<212> DNA
<213> Triticum aestivum
<223> Clone ID: LIB104-007-Q1-E1-H6
<400> 5015

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gccacatgat atgtgtcttg cttggagcat cgtgtgttat attagtcttt gcttttttagt 120
ttatcacaat catccttgct gtacacacct tttgggagaa gcctacttga ttagaatttg 180
ctagaatatg ctttgtgctt cacttatatc ttttgagctt gatagtcttt gctctagtac 240
ttcatttata tcttttagag cacggagctg acttatcttt gtagaaattg ctagtctctc 300
atgcttcact tatattagtt tgagagctct ttagaacaac atggtatttg ctatgggtac 360
aaaattggtc ctagaatggt aggcaccaa gttgggtaca attaaaacta tca 413

<210> 5016
 <211> 269
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-007-Q1-E1-H9

<400> 5016

gacgcggagt tgttatacac gggcatcaaa aaggaagata ttattgcgtt gcgcgtgttg 60
 ttaaatttgt atcgacgagc gtacaaataa tggaacatat caaagatttt ttgtttaaaa 120
 aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaca 180
 aaaagataaa aacattacct acacatgcat acgacgtcat acctcttcaa taatgtcaag 240
 taaattcaat tcaatggccg taattaaat 269

<210> 5017
 <211> 356
 <212> DNA
 <213> Triticum aestivum

<223> unsure at all n locations
 <223> Clone ID: LIB104-008-Q1-E1-A1

<400> 5017

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 ttggaacaca aagaattatg tattgctatg ccatgggttaa ttgtaggggtt attgtttggc 120
 attcatgtta agtttagttg aaactgtatc atcatgggtt cagtttaaaa gtagaaactg 180
 tctatcaact gacatgcttt tgttgactgc tatggagtaa ttttgatacg aacaaggctg 240
 ctaattgatt tggtccttgg tatagcttgt ttattccgag atgatgttaa tttctaagtt 300
 taatctgttg aattagcatg gttatgctac ctttcaagtt gtaattcaac ggatat 356

<210> 5018
 <211> 391
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-008-Q1-E1-A10

<400> 5018

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ggaagaagcg atcgacaggc gctcgctcgc gaggatgac taccgcaact ggtcgctgct 120
ctcctccatg gtcgtcatct ggggcagcgt cagcgccgcc ggctcgccg ggatcttctt 180
cttcggcggc aaggagaaat tccagggcta tttttctcgc gaaggcgaga ggctaatagca 240
gcaggacaga gccatgatgg gcaagaacta gtgcacagca cggctcactt tcgacgtgtc 300
aacatgtgaa tcagacatga aacgacgtat ctctgtggtt tagaacataa ctttctcttc 360
ctgccaatgg caccttttgc ttctgggccc c 391

<210> 5019
<211> 379
<212> DNA
<213> Triticum aestivum
<223> Clone ID: LIB104-008-Q1-E1-A12
<400> 5019

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ggcacgcagc aacgaggcgg tcgaggaggc gcggatcaag ctgctggagc tgcggcaggt 120
gaacaaggtg aaggcgctcg tcggcgccct cgagaccgtc atggacgaca accaaagccc 180
caccgcgcc cgcaagccgc ggctcaacct cggcgccctga actacgagta cattcgatga 240
gcatgaagct cgatcgcggt cgctcctcc tttatccccg ctactcttta atcaccatc 300
aaccaattt gtcgtcgctg cacacttatc tataattacg gtatcgctta tattctgcaa 360
ggaggaagat gatggaagg 379

<210> 5020
<211> 336
<212> DNA
<213> Triticum aestivum
<223> Clone ID: LIB104-008-Q1-E1-A4
<400> 5020

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gtggatcttc tacgcgctgg tcaagaccaa ctccagcccg ctgctgacca tcaacgcctt 120
cggctgcgtc gtcgagtcct tctacatcct gctccacgtg gtgtacgcgc ccaggaacgc 180
caggcaccgc gccctcgctt tcttctcctt cctcgacgtc gccgccttct ccctcatcgt 240

cgctgctcacc gtcttctctcg tgccccagcc cagccgcgtc aaggtcctcg gcagcgtcgg 300
 cctcgcttc tccatgggcg gtcctccgtc gcccc 336

<210> 5021
 <211> 295
 <212> DNA
 <213> Triticum aestivum

<223> unsure at all n locations
 <223> Clone ID: LIB104-008-Q1-E1-A6

<400> 5021

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 gtgctggtgg tagcggcggc ggtggtggtg gctgcggtgg tcgcgttcca ccggaggcca 120
 accgcagaac tcgtgtcgcc ccttaccgc agccttcgag aaggtgatgg acgcgccggt 180
 gctcgtgacg tgcacgcacc gctgcgcttg tangagagag atcagagcat gaagagagca 240
 accagcgtga aaaataaaca ttagcacatc agaattgttg ctcgatcccc ttgtt 295

<210> 5022
 <211> 361
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-008-Q1-E1-B11

<400> 5022

acggggagga taatgccggt ggccctgcgt ggaggcgag ttggcttctt gctttcacgt 60
 catcgttctt gaaggtcgat gattctcctt gtatgttctt gtatggatgc ttgctttctt 120
 tctgtcttct gtttgcaatg ctttgctcgt cgtgaagacg aacagtacaa ataacgtggt 180
 aaaacgtgaa gatgaaatcg aatagagggc accggcgagg attgatccac cgccggtggt 240
 tgaagaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 300
 aaattaaaaa aaaaaaaaaa ataaaaaaaaa aaaaagcggc cgctcaaaag gatccaagct 360
 t 361

<210> 5023
 <211> 391
 <212> DNA

ggaatgtaat tttatttaac tatcatggta gttgaacaac attgagaaag ttcctccaac 180
tcaatcccaa ttaaaagtaa ttatcaaccc aacaaattaa atttagagtc atgagttcca 240
tatgataatc caagaaccaa atactcaaaa tgtccataac cggggacacg actaaccatg 300
attagattgt acactctgca aaggtttgcg cacttttccc cacaagactc gatgtcctcc 360
gttggatttc tcgcactaca tgatgtttg 389

<210> 5026
<211> 332
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-008-Q1-E1-C5

<400> 5026

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aaaatgcagc aaggatatttt tgtatttttg gtttaataga tctgaataaa aatgcaaagg 120
agaagtagat cgcaaagcaa atatatgaga aagaagaccc gggggccgta tgtttcacta 180
gtggcttctc tcgagaaaaa tagcaaacag tgggtagaca aattactgtt gggaaataga 240
tagaacttca aataatcatg acgatatcca ggcaatgac attacatagg catcacgtcc 300
aagattagta gaccgattcc tgcctgcata ta 332

<210> 5027
<211> 272
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-008-Q1-E1-C6

<400> 5027

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agagtggcgc tgatggtgaa ggtaccacca gtgccaccct ccttggcgga caccttcttg 120
gtctcaggtg gagctgccat tgccttctta cgcttgccgg tggagctcga tggtgcgctc 180
tcgacggtag cgcagcactc caaagaggtg ctcttgccgg agtgggcatc agagctcttg 240
ccggacttgg tcttcttctt cccccgggga gt 272

<210> 5028
 <211> 354
 <212> DNA
 <213> Triticum aestivum

 <223> unsure at all n locations
 <223> Clone ID: LIB104-008-Q1-E1-C7

<400> 5028

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 gggtccccc accgactttg acgcactcat ctgcggtagt ggagtgagg tgtactacc 120
 gggctcggca cagtgtttg atgcccacgg gaagctccag cctgaccagg actacctgca 180
 gcacatcaac caccggtggt ctacacgacg cgccaggcag accatangga agctcatggc 240
 ctacacaggac gggtccggca atgtcgtcga gctgacgtg gagtccctgca atgctgattg 300
 cgtctccttc ttctcaagg accctaagaa ggtccaaact atcaataaaa tccg 354

<210> 5029
 <211> 351
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: LIB104-008-Q1-E1-C8

<400> 5029

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 tggatgggga tgagcccgtg atagaactgg aggaaagtaa ggaacctgag acagaagtct 120
 cagcaaattg ttgatttagc tgtaaaggcc aagggcgcca tctctgattg tagaaggtag 180
 caatactgtt catgtaaata caaggatggt gctattgtac ttgtactcgc cgtcctttgc 240
 ctgatgaagc agaagagctg tccaacaccg ccgttccttg gggagtcaga caaaacaaaa 300
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<210> 5030
 <211> 406
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: LIB104-008-Q1-E1-D11

 <400> 5030

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 atcgtcgtcc tcgtaggact cgctcttgct tttagatttc ttctcggcat catcatcctc 180
 ggacgagtcg cttttttctt tggatttctt ctcatcatcg tcatcatcct tgttttccaa 240
 tttcttttcg ttcttctcat catcatcgtc atcatccttg tttttcaatt tcttctcttt 300
 cttctcatca tcatcatcat tgctcgtcgtc gtgcctcttg catttagact tgttagcttt 360
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<210> 5031
 <211> 414
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-008-Q1-E1-D12
 <400> 5031

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 ccaggagcgc caccagatcg gcccgacca gatcgaggcc ctctaccagt acgccaagtt 120
 ccagtacgag tgcgggatgt actcggacgc cgccgatttc ctgtcccagt accgcgctct 180
 gtgcaccaac agcgagagga gcctcagcgc cctgtggggg aagctggcgg cggagatact 240
 gatgcagaac tgggatgtcg cgcaggagga gctcaacagg ctcaaggaga tgattgattc 300
 cagcagcttc acctcgtcgc ctgtcaacca gctccacagc aggatatggc tgatgcactg 360
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<210> 5032
 <211> 317
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-008-Q1-E1-D5
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 aaagtgaacc cgacgcacta ccgggagccg aggttctaca ccaaggtgtt taaggaatgc 180

cactcctatg accaacaggg gaattccttt gagctttctc tggtaacttc caagtgcatt 240
 ggagcttatg tgaaaagcaa gacgaaccag aaccagatat gttggctgtg ggagaaggtc 300
 aagtgcacag aagacaa 317

<210> 5033
 <211> 375
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-008-Q1-E1-E11
 <400> 5033

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 tggtttttcg tggctacaga ggcttgccgc attttgggat ttatcagaat ttttggcgtc 180
 ggattcacat caggggggttc tcgagggacc cacaagccag ggtggcgcac ccaggggtag 240
 ggcgcgcctc cactctagt ggttcctcc ggactcttct ggcccaactt cgatgctcct 300
 gggcttggtg tggccataa aaaatcaccg taaattttca gctcgtttgg actccgtttg 360
 atattccttt tctgt 375

<210> 5034
 <211> 386
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-008-Q1-E1-E12
 <400> 5034

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 ggctattctt gactccatac gagctaaccg cgacttaccg caacataaac aacaagttct 180
 gtgtcaagta ctacctcaac ctggtccttg tggacgagga agaccggaga tacttcaagc 240
 agcaagagat aaacatgttc cgtcttgacg aaactocaca gccttcatac acatctatcg 300
 ctgggaacct ggctgaatc gtgtgttgca agagttagca atttggcatc ctgttatgct 360
 gtatataact ctccaggaga gcatgc 386

<210> 5035
 <211> 375
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: LIB104-008-Q1-E1-E6

 <400> 5035

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 cgtccagatt ggttcgcacc agttcaaggt gagcaacggc gactccatct tcacggagag 180
 gctcaagttc tgcgatgtga atgacaagtt agtttttagat cgagttctca tgcttggtc 240
 acaagctcaa acaataattg ggagggcaat tcttactgat gctaacggtc atgctgtcgt 300
 ccaagaacat gctccaaaat gcaaagttaa catattccag aagaaaagga agaaaaatta 360
 acgccgaaca agggg 375

<210> 5036
 <211> 447
 <212> DNA
 <213> Triticum aestivum

 <223> unsure at all n locations
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 <400> 5036

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 attcacatct gccatcctgg acgttggtgg taatactacc agagtggaca atggaaaagc 180
 gtaccatgca tacacaacgg aaaagaagcc cgagcctgcg cattgatcaa ggttggtctac 240
 ttgtagcaca aatcatgcaa accagctcgg tgaatttttg agctgatgcg tgctgttatg 300
 tctgttttgc tgatgcacct agttcctttg caaagctgta gtaacttggt ttgctcgagg 360
 gcaatacaac agacctggaa taaatatctt gctttatctt gcttagaaaa aaannnnnn 420
 nnttanaaaa aaaaaaaaaag gggccgc 447

<210> 5037
 <211> 403

<212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-008-Q1-E1-F11

<400> 5037

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aaaaaaaaaa aaaaaaaaaa aaaaaataa acaaaaaaaaa aaaaacaatc aaaaaaaaaa  180
aaaaaaaaaa aaatcaacaa aaaaaaaaaa aaaaaataa aaaaaataaa aaaaaaaaat  240
aagggtacc caaattgact caactttaaa ttcctctgat taatacatcc tgcgctcctt  300
acataatact ccaaacttat taacaacact gtcattgaaa aaatgtatca taggaaaaca  360
cctgcatttc gaaaacttaa acccatttta aaaaccaccc ttt                               403
  
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<210> 5038
 <211> 365
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-008-Q1-E1-F12

<400> 5038

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tttgtttttg ttctgtttgt cgtggtacga ggaaagatta ccaagtagat aaggtctagt  180
agcagtttgg ctgtacctaa tcagtaccct tatttcattc cgactagtaa gtaaaaactt  240
gttttttcct caaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa  300
aaaaaaaaaa aaagcgggag ctctaaagga tccaacctta ggtacccatc tatgctacat  360
caaaa                                             365
  
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<210> 5039
 <211> 350
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-008-Q1-E1-F5

<400> 5039

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 tgcattgcat attagtagta aggaatgcgg ctctcgtttc cttgtctttg ccccgaaacca 180
 gaagaagcgt actagtagac gtagttgctg aagagcactc atggaatcct cctccccctgc 240
 tgctaccctg tctctctccc gtgtgtcatt gaaacatctt tctttctgtg tgaaaaaaca 300
 agaaaaatta aaaggatcaa accaagctct tcaaaagcat taaggcaaag 350

<210> 5040
 <211> 185
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-008-Q1-E1-F6

<400> 5040

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 gtgcatgcga cgtaatagcg cttcaatggc gcccgttata ctcatccac agggcgatcat 180
 ttac 185

<210> 5041
 <211> 402
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-008-Q1-E1-F9

<400> 5041

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 aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 120
 aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaagcggc cgcccaaag gttcaaacct 180
 tacttacgct tgcattgcaac ttcaaacctc ttcaaaattg tcaccaaaat tcatttcact 240
 ggctttcttt ttaaaacttc ttaacgggaa aaacctggc tttaccaat ttaatccct 300
 tgcacaaat ccccttttcc caagctggct taatacaaaa aaggcccgca cctttcgccc 360
 ttcccaaat ttgccaccc taaatggcaa atgggaaccc cc 402

<210> 5042
 <211> 377
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: LIB104-008-Q1-E1-G11

 <400> 5042

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 ccttatgaac aagagtatag tgattgtttt taccatgggtg tacagaattt ttatcaaagt 180
 gccatgggtct accaagtaat aaggaacatg cttgcatagg taccacatca caatcaacat 240
 aatcagcata tgtaaagata ctaaaatgca cacgaacagt acgtgttacc ttaaccttgc 300
 cgctgttgtt gaaccattgg atgtagtaag gatgtggatg tgggtcttgtg gtgagagaaa 360
 gcttctccac catctcc 377

<210> 5043
 <211> 374
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: LIB104-008-Q1-E1-G9

 <400> 5043

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 ggggtgggaca cgccgattca cgtggacgcg gccagcggcg ggttcatcgc gcccttcac 180
 taccgggagc tggagtggga cttccggctg ccgctggtga agagcatcaa cgtcagcggc 240
 cacaagtacg gcctcgtcta tgccggcgtc ggggtggatca tttggaggaa caaggaggac 300
 ctgccgcagc agctcatctt ccacatcaac tacctcggcg ccgaccaacc aaccttcacg 360
 ctcaacttct ccaa 374

<210> 5044
 <211> 373
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-008-Q1-E1-H11

<400> 5044

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taccgatgga cgaagacgaa agaggggatg cctcccgggg cataccaag cttaggcttt 180
tcgttgtcct ttaattttac cttgggggtgc cttggggcatc tccaagctta ggctcttgcc 240
actccttatt ccataatcca tcaaatcttt acccaaaact tgaaaacttc acaacacaaa 300
actcaacaga aaatctcatg agctccatta gtataagaaa acaaaccacc acttaaggta 360
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<210> 5045

<211> 354

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-008-Q1-E1-H5

<400> 5045

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tttcctacca atctatcccc ctaggagcat gcgcgtagta ctttgtttca atgactaata 180
gatttttgca ataagtatgt cagttcttta tgactaatgt tgagtccatg gattatacgc 240
actctcacc ttccatcatt gctagcctct ctagtaccgg gcaactttcg ccggtaccat 300
aaaccaccca tataccttcc tcaaaacagc cactatacct acctatcacg gaat 354

<210> 5046

<211> 412

<212> DNA

<213> Triticum aestivum

<223> unsure at all n locations

<223> Clone ID: LIB104-009-Q1-E1-A4

<400> 5046

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cccggatgaa ggggtgggttc tatgtcagtc ctgaggctaa gctgtgtttt gttgtcagaa 180
tcagaggtat caatgccatg cacccaaaga ccaagaagat cttgcagctg ttgcgtttga 240
gacagatatt caatggagtg ttctgaagg ttaacaaggc caccatcaac atgctccgca 300
nggtcgagcc atatgttgca tatgggtacc cgaacctgaa gagtgtgagg gagttgatct 360
acaaaagagg ttatggaaag ctcaacaagc aaaggattcc tctggacaac aa 412

<210> 5047
<211> 396
<212> DNA
<213> Triticum aestivum
<223> Clone ID: LIB104-009-Q1-E1-A6
<400> 5047

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caggtggtct gcgccaaagt caacgacctc cacgacaagc aggggatgaa ggagtgcctg 180
tcgtgcgga cctcatcca gcgcagggtc tgcgcccga ccgtgggctg ctgagtgaga 240
agagagagat tttgcgttcg cgtecgccgc gctataccgt ttttcctttt ctttttgatg 300
attgcccagc ttgaatttga tggagattgg aaaaaagaat aacgagtgtc ggtcggacga 360
ataacgcttg gtcgagacat cgtacacccc ccaaag 396

<210> 5048
<211> 409
<212> DNA
<213> Triticum aestivum
<223> Clone ID: LIB104-009-Q1-E1-A8
<400> 5048

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cgagaccgtc gccgaggtcg tgaagggcaa gggctatgtg gagaacacgc ggctgggcaa 180
ctggaagctc ctgatcggga cggccgtgat cgccatcgcg ctctcgcgc agttctaccc 240

gaagaagttc cgcgagaacc gcgagttcct gtcggttgc atcgcgctgt atgtggtgat 300
 gaacgtggtg ctactgatcc ttagctatac caaggaaaag gatgccatca tcttcacca 360
 ccctcctgct ggttctttca ataacactgg ccttggtata tcttcaaag 409

<210> 5049
 <211> 428
 <212> DNA
 <213> Triticum aestivum
 <223> unsure at all n locations
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 <400> 5049

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 ggaaatagtg cataacactt gatgggttct cacacacttc tctcatctca tttttggtgg 180
 caaatagtagt taagtttttc ttgtcgctca tcatggaggc actcaatttt ggcttgtggc 240
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 gtccaaga 428

<210> 5050
 <211> 441
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-009-Q1-E1-B12
 <400> 5050

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 tattccgtaa atagtcatac atgcttatgg aaaagaactt gcatcacatc ttttgccta 180
 ccctcccatg gcaacgggggt cctagtggaa actaagggat attaagtcct acttttaata 240
 gagaactgga ccaaagcatt aacacatagt gaatacatga actcctcaaa ctacggtcat 300
 caccgagaag tatcccgatt attgtcactt cgggggtgtc ggattataac acataatagg 360

tgactataga cttgcaagat aggatcaaga acaaacatat attcatgaaa acataatagg 420
 ttcagatctg aaatcatgcc a 441

<210> 5051
 <211> 421
 <212> DNA
 <213> Triticum aestivum
 <223> unsure at all n locations
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 <400> 5051

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 t 421

<210> 5052
 <211> 384
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-009-Q1-E1-C3
 <400> 5052

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 ccacggtgga agccgtgtcg gagggcgtgc cgatgatatg cctcccggtg cacggagacc 180
 agttcagcaa cgccaggtac gtgtgcgatg tctggaaggt gggagtggag atcgaagcgt 240
 catcagcggc tgggcagAAC ctggagagag ggaagatcaa ggctgccatc gacaagattg 300
 tgcacgacaa agggattaga gagaggatgg atgccttcaa attagctgca gatgaagcag 360

ttaactccca aactgaggtg aaag

384

<210> 5053

<211> 395

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-009-Q1-E1-C5

<400> 5053

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tgtgttgaag tttgtgattc ccgtagcatg catgtatggt gaaccgcttt gtgatgaagt 180

cggagcacia ttttatttat tgattgtctt ccttatgagt ggcggtcggg gacgagcgat 240

ggccttttcc taccaatcta tccccctagg agcatgcgcg tagtgctttg gtctttgatg 300

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<210> 5054

<211> 401

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-009-Q1-E1-C6

<400> 5054

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tgggtgattc tttttttgtt ggaaactaga ttctgtgctc tttccaacac aattggattc 180

acctttaaat tcgtccggag cattgagtta tggtcgaaac aatctgacgt tgcaccagaa 240

tccgagtcaa actacaagtc caaaggtgtt gcacacctc cacttgggcc catgtgcctt 300

gtacgaccta gggttggttt taggctgcct tgggacgtcc tcccacctcc ttggacgcca 360

cccttgttc ctatataagt agatccatct agtagctttt t 401

<210> 5055

<211> 428

<212> DNA

<400> 5057

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gcctcagtga cccgttgctg tcacacggcc acaacgacca cagtacgaa cacaagaacg 180
acgtggatga cgaggagtgg gaggatggca ggaggaagtt tggggctgcg gagaccttca 240
agctccctga tgagatcgac attgctcatc tcagctgagc tgcatatcca ttcttatgac 300
aaagatcata tcttgccggt tcacaatatt tgtccagtaa agtgatatca ctatatgcaa 360
atagcttcat gcaaaaccct gtatagctgg agtttagtga accaagcgcg gaacaactaa 420
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<210> 5058

<211> 305

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-009-Q1-E1-D8

<400> 5058

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taccgtgctg ctttcttttc ttttttggtg gtagatctga tgtctctacg tatgatagat 180
accgagtgtg tgggtgggtg tctttccatt cttttgggtt cgtgggtgcc atgtaaatgt 240
tgggtggatcg attccttatg tttttgcctc ctgcggtaaa taaaagctaa tgcagattcg 300
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<210> 5059

<211> 418

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-009-Q1-E1-E3

<400> 5059

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acggtggttg acattgttga cacgttccat cttcatgata acactgcttt tgacaagaag 180
cagtttatct ctcacatgat gcgctagatc aagaagctct ctgccatgct tgaaagggat 240
gacctagatg ttttcaagaa gaatgttgag tctgccacat agtatcttcc tatcaagctc 300
aatgaccttc aattcattgt tggcgatagc atgcatgatg atggcagcgt ggtgttcgcc 360
tactacaagg agggagctgc tgatccaact tacctgtact ttgcacatgg gctgaaag 418

<210> 5060
<211> 437
<212> DNA
<213> Triticum aestivum
<223> Clone ID: LIB104-009-Q1-E1-E4
<400> 5060

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cgtgggtttt cataaccctg ctgcgcaaaa atgggatatg catttgaaat agatgtccga 120
gttattacgt atatcatgat cgatacagaa atcgatcgag ttatctgttc ctttaccocaa 180
gaaaaagtat ttctattttc catgtccaat cgcagatccc agaatttcta caataaatta 240
gataggtagc taagctaate tagttcccta tacacgaate tgttgtcatt ctactgcaac 300
agttgtactg caatgatgaa taccttaaag taggtataaa tagaaagaat ttgctaaaa 360
tggaaaaggg ctttctttct aaaaaaagat gcttgctaata ttgattaata ttaatatcgg 420
gagatcgaat gaattta 437

<210> 5061
<211> 416
<212> DNA
<213> Triticum aestivum
<223> Clone ID: LIB104-009-Q1-E1-E6
<400> 5061

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agaaagttac cgcaaagat aggatttcag ggaggcttct aaatggtcgt gctggggacg 120
caacaataag agaagcttct aatactgagg atatgaccta cagggaagca ttcccaaatac 180
agtggcagtg aaagcaccct gagtaggtct ttcttcataa ttaacagttt tgttttgctg 240

tgctgttgca tgcttgaagt gcttgaagta cgcgggggcac tgaagctgct tcgaacccgt 300
 gcatggaaaa tttcagaaaag gaaagtcgta gaccatttgt attggcagtc ggattgagaa 360
 tccaaatcag aacaacgcga cagtaaataa gcactcgatt ttgtgaacat gccaaag 416

<210> 5062
 <211> 416
 <212> DNA
 <213> Triticum aestivum
 <223> unsure at all n locations
 <223> Clone ID: LIB104-009-Q1-E1-E7
 <400> 5062

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 ccgtgtagtt cgtgcgatcg aggccccgtc atgttcatta aatactgtac atactgtcta 120
 gtagcaccgt gtgtgctggct tggcctcgaa tctcgatgta atataagacc tatgtaattc 180
 gctagcatca ataaagcggg tgtttctata ccatgttggt gtgtattgcc agaagacttg 240
 atctccgggc tggcaatgca aggtaaaccg gttgctctga gccgggggtgc cacatcccca 300
 taaagctaaa tgtggtcgca ctgagaataa ctcgattcag tggcaccatg actcgattaa 360
 cattatattc aagtgggatt attatcaggt ttaacttgaa aataaaatca nccaag 416

<210> 5063
 <211> 436
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-009-Q1-E1-F3
 <400> 5063

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 ctatcaagtg gtatcagatt tccaggttgc tcggtgagat ttacagttt ttcatagttt 120
 agatcgagtc tgttcttcat acctacagtc cagcaaaaag ccacaaaaaa aaattagggt 180
 tagttcatca tatccgaacc aatctgagcc tttgcataat ctttttaggg tttttgcttt 240
 gttgaatttg cggttgcac gtcgtgtcaa gttgctggtc ttagagtcta gtcttttaga 300
 gtttcgagtt ctggtcataa gttgtcacgc cgccgccgca ccatcatcat cgctttacca 360
 tctaccaccg ttgcttatcc accaccgctt tgaatccgta tccatatacc aacaacgctg 420

ccataaaata acggca

436

<210> 5064
<211> 419
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-009-Q1-E1-F5

<400> 5064

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attgcttctt cagatccgac ttgtgctagt agcacttgat atcttctttt cacgtacata 120
gcaagcgggg atcaaactct gtagcttacc atgatgagta ctagtacttc ttgataattt 180
ggatatgggct agctgactag ctgactcttc acgcggcccg ttcagacggc gcaacagaca 240
cgggtggctt agcttggagc aggcgaccgc gacccaacat gcaacaagag tcacccgagt 300
ccgtgctcac gcccggtccc ttctccaagt cgcggccggg ttgaccaatc cattccagtc 360
gtgggtgata tctgattttg tgcttgactg taecgcgctg gattcgatcg acagcgtgt 419

<210> 5065
<211> 419
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-009-Q1-E1-F7

<400> 5065

attcccggtt cgaccagctc ctgcagcgta gtgacgccag cgagaatgtc gtcacgccc 60
gcgaaggact tcaggaacgc cggctcgtcg cgatggccga cgccgtgaat gcccttgatga 120
gagccctcgc gtgcccgatga gagctcgttc gagggctctg cggcgccacc gggcatctct 180
gctgcggctg cggcttcgtg gcgggacctc tctagtgttt ccgcggccctt gatctttgct 240
ggctgggttat atgtccaccc taaactcctc ctaccggtca tgggtggaatg acttgacagg 300
aaagaccagt tttgtgggtg atgacgagag gaactgtgaa gtaattttcg agtgggtagt 360
ttttatagcc cgatgctaag tgtgaacacg tattagtttg atagggtgta acagatttg 419

<210> 5066
<211> 379

<212> DNA
 <213> Triticum aestivum

 <223> Clone ID: LIB104-009-Q1-E1-F8

 <400> 5066

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 gcgacgctct acactgggtct tgttgtatgg tagtcagtgc taagtttctt aatgtcattt 120
 catatatatta tcctttccat tttgagtcgc tgaaactgct gagtgatgtg cagtttgctc 180
 tgttagtcgc tctgtcactt tcacttttca tattctttgt tgtgtagttc ctcatactgc 240
 tctttcttcc tgagtctcgg aaagaataat aaagagccat gtgtaattct aaaaaaaaaa 300
 aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaattaa aaaaaaaaaa ataaaaaaaaa 360
 aaaaaaaaaa agcggccgc 379

<210> 5067
 <211> 379
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: LIB104-009-Q1-E1-G1

 <400> 5067

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 cgaccaacaa cggcgacatc gtggacgcct aagcaaagca atgagccacg gacaccaagg 120
 cgtacgtacg ctggtgtttg ggggcgcaag atcaataaga tggttcgggtg aaacggagga 180
 tgcttaggga cgagggcttg tttttgtgat ttgtcagact cgtgtttaat tccgatgttt 240
 gtcttttagtt ttcttgtgtt agcgtatatt gttcatgcca cctgcccgcc atgtgctctg 300
 ccctgcctct gcctcgcggc agttccatgg atgatgaatc cttctggaac aagaggaggg 360
 aataaaaagg ttgagttcg 379

<210> 5068
 <211> 402
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: LIB104-009-Q1-E1-G11

 <400> 5068

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 aggtcccgag gcatcgattc gtggatgttt gtgatattcc catcgtgtga aaaccaaagg 120
 catgttcac tactagtact actgacgtgg aggcagtacc tactaaagta ctatatttca 180
 tatttataaa tccttcaatg gctgttgagc actacatcta ctgatccatc aagccatcac 240
 gtcaaggcgt gtgccgatct caacacagag atcaaggaat actacagata caagatcaga 300
 tcaacatggg tctccagacc agcgatgacc cggacacgga ttaattaaac caaccatgat 360
 gtggaggaag actcggattg gactcggatt ctgacatctc tg 402

<210> 5069
 <211> 414
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-009-Q1-E1-G12
 <400> 5069

ccggtccaga attcccggt cgacgggctg gcggagaagt tcatcgcgag gttccacgag 60
 aagttcttgc tggagaagca ggagtcgtac cggaggtacc aggagatgat cgccaggagc 120
 atatgaacca cgagatccat gacgacccat cgagggttca tccattgcgc cgggcggctt 180
 ggtgtccgga ctctgagcat ccggagtact acgtgagtag gaatttgatg ttgagcagtg 240
 agtaattcat ggtgcagctc ttcgtggccg tgcctcgaaa ttggagtcgt tttcgtctgg 300
 ggcgtgtcgt gtgtcgtgtg tcgtgtgtcg tgtgtgcgtg tgatgattta atttggtgga 360
 ttcatgtaag gttgggttac ggtcgaagca aaattattct tcgggaggac aaaa 414

<210> 5070
 <211> 372
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-009-Q1-E1-G3
 <400> 5070

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 gaagtcggca ccacatttct catttctgtc aggtacaccg gatgctgata gcaaagcagt 120
 gcactgcaag ttggagatgg tttagcagag gcatgttctt gtcaagcgtc gttgctgcac 180

gcaggggctg gccctgcatg gattgatgta tttttacact caagctcgca atgtaacacc 240
gagatttggt gttctctagc atctactact atacgtgatt gcaacgaacg gaccaagaca 300
tctgatgaac acttgtcatg tttccctgtc gaacatcctt aatatatcaa gaagcgttgc 360
tgctctgtat ct 372

<210> 5071
<211> 396
<212> DNA
<213> Triticum aestivum
<223> Clone ID: LIB104-009-Q1-E1-G6
<400> 5071

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ttggtacgtt aaataaagag tttagtttcg tatttacaca atttaaatg attgttatgg 120
agagaataag aaaaccactc cactatatat tagtcgtata cacgagtact atatggacgc 180
agcttcattg acttttagtgc acttgccctt gggtttatga taggtggggc caaaatgtgg 240
ctggcccacc tgtcatacag ccaaaagcag gtgcagttaa gacactggag ctcaagtccgt 300
actacagtat atatataagc tggagcctca gcacttgctt tctagggctt gcactctcca 360
cactctcgct gcactacata tatatatata cgctgg 396

<210> 5072
<211> 422
<212> DNA
<213> Triticum aestivum
<223> Clone ID: LIB104-009-Q1-E1-G7
<400> 5072

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tagaggcgga tcgttggtca ggctggccgc gccgctgctg ctgctgctaa ttgctctgta 120
agagtgtaca atatggaaag cgtccttgag ttatacagaa cgtgccagct tccttttgtg 180
atcggggaaa gaggggaatg gggatggata acacggaaga gcaacgcaat gcatgcatcc 240
tatcttcaat agtctgtaaa agtttttggg atgggcactg ccggtaagca tgaaatatgt 300
tggcacttgg cagtcttgta ttgttttgat ttcgttgtgg tttgaggcga gtacttggat 360

taccaacacg aagcaacggg cttgagggag tgcagatact tcgttgatgc tcgacgaatg 420
ga 422

<210> 5073
<211> 445
<212> DNA
<213> Triticum aestivum

<223> unsure at all n locations
<223> Clone ID: LIB104-009-Q1-E1-H11

<400> 5073

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ctgggaggca ggcgacctc gaggcacggt tacttcgacc actttctcct acgacaacat 120
aactggatgg attactaatt gcagcgcata aattatgttt cattagcata accatcgcat 180
aaccaggcat gaatgtccca tcattatcag gggtttattct cttcaactat ttttgcgctc 240
atgtgctcat aaattttatt attagagcaa aatcagcata ttctctttta ctagcacatg 300
cccacaattt tttccatta tagccaaccc gcatattgtc ttttattggc acgtgcaagt 360
tatctccagc aataatttgt ggagtcctc attctgctca taattctcga nacaacctcc 420
ttattctcaa ataacctcct taatt 445

<210> 5074
<211> 436
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-009-Q1-E1-H5

<400> 5074

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gatggatatct cgctagccct ttctgagacc gcaaaacata aatgcagagc acctttaaag 120
atcaaggact gactagacat tgtaattcat ggtaaaagag atccagacaa gtcataactca 180
atgtaaacta acagcaatga atgcaaatga cagtgggtgct ctccaattgg tgctttttta 240
taagaggatg atgaatcaac ataaaactaa atagataggg ccttcgcaga gggaagcagg 300
aatttgtaga ggtgccagag ctcggttttg aaataggggt gaataatatt ttgagcggtg 360

tacttttcatt gtcaacataa caaccaagag atggcgatat cttccatgct atacacatta 420
 tacgcagttc ccaaac 436

<210> 5075
 <211> 427
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-009-Q1-E1-H7
 <400> 5075

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 tcgagtacgc caacaccaag ctccgcaccc gcacctgcac cgatggggga aggaaccctg 120
 ccttcgacga gaagtttcat ataccactca tcgaggggct ccgtgagctg agtatcaacg 180
 tgtggaacag caacacaatc aacactgatg acttcattgg cagctgcagg gtgccactga 240
 acaaggtgct cagcagtggc tacgatgggt cctcgtggcc cctccagaca cgccatatga 300
 agtctgctgg ggaagttaag cttatcatgc actttgatgt ctcagcaatg aagaacaaga 360
 tggcaggtaa aacttctggc cagtacgctc ctttcgcata cggcgctcc tcagcttcat 420
 acccagc 427

<210> 5076
 <211> 431
 <212> DNA
 <213> Triticum aestivum
 <223> unsure at all n locations
 <223> Clone ID: LIB104-009-Q1-E1-H9
 <400> 5076

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 ctgaagcccg gtgggcatat tttcatcagg gaatcgtgct tccaccagtc tggggattcc 120
 aagaggaaag tgaacccgac gcactaccgg gagccgaggt tctacaccaa ggtgtttaag 180
 gaatgccact cctatgacca agaggggaat tcctttgagc tttctctggt aacttccaag 240
 tgcattggag cttatgtgaa aagcaagaag aaccagaacc agatatgttg gctgtgggag 300
 aaggtcaagt gcacagaaga caaaggcttt cagagattcc tngcgaatgt gcagtacaaa 360
 tccactggaa tcttgcgtta tgagcgcgtg tttggggaag gttatgttag caccggtgga 420

ttcgagacca c

431

<210> 5077
<211> 404
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-010-Q1-E1-A12

<400> 5077

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ttgctcattc agtaagccag gatcatcgga cacctatgag caccttcgag agactgagac 120
gacatgaaat ggtaaggcca cgcttgggag ctctggtttg tttcacacct gtattaagat 180
acaggtgtaa tttactcgtc atcggaaca atgcgtaaag tacaggcgta atgaaaccga 240
gggcccggag tctataagta aaaccggcag gttacgcgtg taatttgaga gaccggtgta 300
tattttacta gtcgaaatcg accaaccaag cgcttcgccc gagaccatct gcttttattt 360
acaagcatca gttttacatg cggttttggt tgggaaacga cgat 404

<210> 5078
<211> 239
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-010-Q1-E1-B12

<400> 5078

cctatagtga gtcgtattaa attatcgggt ctcatgatgt aacaccgaat catcattgta 60
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actaatcact tagccgctca ggtgaatcta ttcgtagttc agagtacggg ataggagggtt 180
agacgtttac tgttgacgtg gtgtactcca tcacctcatg atttatacat gatgtcctc 239

<210> 5079
<211> 192
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-010-Q1-E1-B4

<400> 5079

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 caaatgcaaa cgatgccgac ggcctagccg tctgcataag gccaacgtga gctcccagta 180
 gctcgagtt aa 192

<210> 5080
 <211> 409
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-010-Q1-E1-C12
 <400> 5080

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 cgcagaactc gtgtcgcccc ttaccgcgag ccttcgcgaa ggtgatggac gcgccggtgc 180
 tcgtgacgtg cacgcaccgc tgcgcttgta ggagagagat cagagcaaga agagagcaac 240
 cagcgtgaaa aaaaacatta gcaaatcaga attgttgtc gatccccttg ttgggggtggt 300
 tacaacttag tgtttagatc atctttgatg acaattgacg ccgtcgatct gtttaattgt 360
 gttcctttgg ctggttggtg cttcagtcgc agccaagaat tggcgtgga 409

<210> 5081
 <211> 399
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-010-Q1-E1-C4
 <400> 5081

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 caaagatgag gaagaagctg ggcacccggt tccccgcggc acggatcata aagataatgc 120
 aagcagatga ggatgttggc aaaattgcac tggctgtgcc tgttttagtt tcgagagccc 180
 ttgaattggt tctgcaagat ttgatcgacc actcatacaa aattactctt caaagtgggt 240
 caaagacact gaattccttc cacctaaagc aatgtgtgaa gaggtacagc tcttttgact 300
 tcctaactga gattgtcaac aagggtccag atctcggtgg cgggtgaatct ttgtgaaaat 360

aaaagaggat tacccacaat aaaggaaatt ttcaaattgg

399

<210> 5082

<211> 413

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-010-Q1-E1-C5

<400> 5082

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cgaacctatg ggataaccta cgatgatagt tgatttgatt ctgctgaaaa acagaaactt 120

tgacgcgacg aatataatgt tgttaaatca caggaacgta attttgcgtt gattcttttt 180

tatgctgttc aataaacaata ttttccagga ctctctatgt ttgtaggatt ttttagatttc 240

cataagtttg cgtaggttac aggttgctac agactgttct gtttttgaca gattctgttt 300

ttcgtgtggt gtttgcttat ttcaatgcat ctatggctag taattcagta tatgaaccat 360

aaataagttg gagtaggttt aacacaaaaa taaataaaca atgagttcat tgc 413

<210> 5083

<211> 206

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-010-Q1-E1-C6

<400> 5083

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attgtgtgga aagctctatg gtatgcaggc aaaactacgt gtttggtaaa tcagatggaa 120

gtgggatcgc gttaatgctc ttctagagag tgatctgtac aactttgcga ggagttcatg 180

atatgataag agtttacaaa tttcca 206

<210> 5084

<211> 390

<212> DNA

<213> Triticum aestivum

<223> unsure at all n locations

<223> Clone ID: LIB104-010-Q1-E1-C7

<400> 5084

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aagttctgtg gcgtcgctgc cctgacgacc tcggggaagg aagcgacact gctcgcggaac 180
ggctctccatg ttggtcggca acaatggcga tgacgttggc gaaccgtgat tgtacgggggt 240
ggatggggggg tgctggaagc ggaacacggt cagtcaaggg aaaagggcct tgtgtgatgg 300
aggcgtgcgg gctgtgcggt cccctggtga acgaatctgt atcgacncca tcgtactgaa 360
cgactcatgt ggtacaaata taatactggg 390

<210> 5085

<211> 392

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-010-Q1-E1-D12

<400> 5085

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ctcggattca aggtctaaac gcgcattgat atgcattgat gcaacgcctg cccctgtac 120
atgagatacc gatcgaggta aacgtaattgt gtgtacggaa cgtgtgatga ctgatgcttg 180
caagatcagc aaaccttcgc tgctccgtta tcaccttctg ttcttttctg gagttctctt 240
ttccctggta aatgattaag tgtatgttgt gagttgtgac attgattaac tggaaaatgt 300
atcattcaga tgcccattaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa acaaaaaaac 360
aaaaaaataa aaaaaaacgg acacccaaaa gg 392

<210> 5086

<211> 436

<212> DNA

<213> Triticum aestivum

<223> unsure at all n locations

<223> Clone ID: LIB104-010-Q1-E1-D2

<400> 5086

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gtcaacagcg tccgcctcgt cattttgcgt cagcacaact ccgctgtggc tgccggaggg 120

aatagaggag aaggcaggaa ggcaccagaa ggggacgcag tcaccgccct aggtgccgac 180
ccatcagaga cgcagttgat gatggtgcgg cggagaagac gacgaaagca caagagttca 240
aattcagtcg tcacgtccg cttcactccc gctacgactg agggggaatg ttagaagtat 300
aattatgttt aagttagaga taggattggt ttaaaccaca tgtaacttgt cttgtactcc 360
aagtctctat ccctcatgat gtactctata ttatacccta tganggtcag attcaataaa 420
ccattattat caaccc 436

<210> 5087
<211> 420
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-010-Q1-E1-D3

<400> 5087
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gtgccaagat cttgggcagc gctggggacc ggcaagtcgc gagttcttac ctggaaggtg 120
tcattctggc aaaccaagat aaggacaact tcctcatgcc ttactttccc gagtaagtcc 180
tccctcaac cgccccgtaa catatgaatt cttagatttc gatcggtttt attttaacat 240
tccgtgtttt ctgcagtgc acacattgca cgctcactct cctaagcccc aaatattcca 300
tggccacgta ttctgacccg gaccgtcagt cgaacgtaga ctacacaaat gtcaagaagg 360
ttcttgatga tgttctcccc ggctacgtca aatatggagg caccttcacc aggcctaata 420

<210> 5088
<211> 389
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-010-Q1-E1-D4

<400> 5088 /
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aatgaatgtg actccaaatt tgtacagcaa acggtgctga ctactgcaca atgacgtctg 180
atcgtctatg tacaccatgt ctgtacaatt tacaccgtga ttaacagcgg tacactctct 240

tttgcacata tccagcagag atcaacgaaa cgaaggccgg cactgttcaa aatttgtacc 300
 cacttcgaaa agtatagatt gattgtatca catgaaactg tgaaatctga tatatccatt 360
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<210> 5089
 <211> 175
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-010-Q1-E1-D6
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 caagacgtgg taacatcgta cggagtagcg cgcgtaattt ttagtttgtt tcttcttcag 120
 gtggtggatg tccatcatgt ctatgagcac aggcttctgg gttttgacag agtct 175

<210> 5090
 <211> 400
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-010-Q1-E1-D7
 <400> 5090

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 tcatgaagga cgtcgccagg gtcttctgaa tcagttcatt tcacctcaac cgteccgatcc 180
 aggagccgat ccatctacgt acggcttcgt aaatcaattt catgcaacta cctactccgg 240
 tcccgatcca gcctcagctt cacctgaggc cggccctaatt tttgtttgat caattttttg 300
 ctactagtag taactagtga tgattactgt tgcaccattt acttatttta taacgtcaca 360
 actttccagc gtttcttttc attctctacc tttttgtcga 400

<210> 5091
 <211> 320
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-010-Q1-E1-D8

<400> 5091

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gcaatcagaa tcagaatcaa cttgcccttg cagcatcggg ccgtggtaac aaacagcccc 180
gcagcaacaa cgctaagtcc taccgtcgtg ctcatgctaa atacgttgat ctcaaccaag 240
ctcactacca gccagctact gtgatcggta cactcctcgt aaattcagta ccaggaaccg 300
gtccgatgtg acacaggtgc 320

<210> 5092

<211> 342

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-010-Q1-E1-E3

<400> 5092

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gatcgtacag ataactactg gtatataatc tcatccccga tcgggtgaatt actctctcct 120
cgtcatgcat agcgccggca tgatgaacat ggccattcat gtgaacgact ccctcgccgg 180
caaggttact tcatgggctc acgagatggt ttgtgggtggc tacagaggcg tgcggtaacg 240
gagctcccga tctatgtgat gtcttggggg tttctgtagc tcttggacgc tttggcatct 300
gaagcttgtc gtgggcgtca ccgaggctac catgaggtac gg 342

<210> 5093

<211> 392

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-010-Q1-E1-E4

<400> 5093

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attagctaga agagccgcca gccctctgt acatagcaag aataaatatg gagagagagg 120
atctccctgc ctcaaacctc tagtaggttt aaaactctca gtctcttcag tattaaagcg 180
aaccgggtac tccaccgaag atacacattg cataattaaa tttaccagc tctcttgga 240

tcccaatttc aacataatat ccttcagaaa agaccactct acccggtcgt acgctttgtg 300
 catatccaat ttgatggcac acataccctc tttaccattc cttttttctt tattgtatgg 360
 aaacactcgt acgccactaa aatgttatct gt 392

<210> 5094
 <211> 436
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-010-Q1-E1-E5
 <400> 5094

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 tatgtgatgg ttatatTTTT gaattccttc atgatgttac tgaaaattat tatgagagat 120
 gaacatatgc ttctacatat tgcaatatta tcaagtttcc tctctatgta ttgaaaatct 180
 tgaagttttg cttattttac cttectatgc tagttgatcc ttgctctcat aaattgtttg 240
 ttcacaaaat ccctatgcat aggaagtggg ttagacttaa atgtgctagc catatgctta 300
 atgatgctcc tgttatgttt caattcttat cttttatgtg agcatcatcg aaatcatcat 360
 gactagctaa aaaggcatta aagaaaagct cttgttggga gacaacccaa tatttaccct 420
 tactttttta aggttt 436

<210> 5095
 <211> 418
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-010-Q1-E1-E6
 <400> 5095

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 agtagatatt acaacaatat gaatttagaa tgagttcaca acagtaccta agtggtgatt 120
 tattttcttg tactaacgga gcttacgagt tttctgttaa gttttgtgtt gtgaagtttt 180
 caagtttggg taaagattcg atggactatg gagtaaggag tgccaagagc ctaagcttgg 240
 ggatgcccaa ggcaccccaa ggtaatatcc aaggataacc aagcgtctaa gcttggggat 300
 gccccggatg gcatccctc tttcgtcttc gttcatcggt aactttactt ggagctatat 360

ttttattcac cacatgatat gtgttttgct tggagcgtca ttttaattta atttgttt 418

<210> 5096

<211> 404

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-010-Q1-E1-E8

<400> 5096

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gcgacagcat gtgctttggc tatcgaggcg gacaagctta tctgtgttgt cgatggccaa 120

atatatgatg agcatggccg agtcaatcgt ttcattgtcta tcgaggaagc agatatgctc 180

atcagaacac gcgctaagca gaggtaaaact gctgcaaatt atgtaaagggt tgtaggggag 240

gaggacatta gttatgccca caattttcct atcaaagagg agaaagagca agtatgagtt 300

ggaagagatt tcattcagtga ttactctgca tcctttcgga atggtgtggg tttcaataat 360

ggaaatggtc tgtctgggtga gcaagggttt gctattggcg gggc 404

<210> 5097

<211> 379

<212> DNA

<213> Triticum aestivum

<223> unsure at all n locations

<223> Clone ID: LIB104-010-Q1-E1-E9

<400> 5097

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aggaattgtg cggtgccact gtgctgtgag gataaggatg tatattaggt ggaaaagaaa 120

acaccttcga attgtagcaa gctcgagctt agccccatctt cttgacgtac ccataactgt 180

aggtgcttaa agagttttca gcgtgggtgg acgcctcagg ttgtctacaa aaactaatta 240

ggagtactca gtgttttttc gaataaaaaac atctgtgtta ttctcacttt tattttaata 300

tattttatat gttttatataa aananaaaaa aaaagggtgag agtttaaaaa aaggaaaaag 360

aaagatagga aaaacaaag 379

<210> 5098

<211> 317
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: LIB104-010-Q1-E1-F11

 <400> 5098

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 cttactctgc attccttaat cttcattcta catgtataat agcagacaca acagtataat 120
 taggacatat atatactgca ggcaatatga atgacatggg gtagatatta atagatcact 180
 tatagaacgt agcaactgat gatataattta tcgagctcgc gcagattgta aagctgcaac 240
 aattcattca gttcaatttg tacatcgtaa ttgtttgaag tgacgctcat gtctaagttc 300
 cgcataaata tactctt 317

<210> 5099
 <211> 400
 <212> DNA
 <213> Triticum aestivum

 <223> unsure at all n locations
 <223> Clone ID: LIB104-010-Q1-E1-F2

 <400> 5099

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 ggcaggtgaa caaggtgaag gcgctcgtcg gcgccttcga gaccgtcatg gacgacaacc 180
 aaagccccac cgccgcccgc aagccgcggc tcaacctcgg cgctgaact acgagtacat 240
 tcgatgagca tgaagctcga tcgctgcgc ctctctcttt atccccgcta ctctttaatc 300
 acccatcaac ccaatttgtc gtcgtcgcac acttatctat aattacggtg tcgcttatat 360
 tctgcaagga ngaagatgat ggaggggtta tcatcatgat 400

<210> 5100
 <211> 402
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: LIB104-010-Q1-E1-F3

 <400> 5100

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 gcctaagctt ggggatgcc cggaaggca tccctcttt cgtctttgtc tatcagtaac 120
 tttacttgag gctatatttt tattcaccac atgatatgta ttttgcttgg agcatcttgt 180
 atgatttgag tcttcccttt ttagttttcc acaatcatcc ttgctgtaca caccttttga 240
 gagagacacg catgaatcgt gatttattag aatgctctat gtgcttcaact tatatctttt 300
 gagctaggca aattttgctc tagtgcttca cttatatctt tttagagcat ggcggtgatt 360
 tcattttata gaaattgatg aactctcgta cttcacttat at 402

<210> 5101
 <211> 420
 <212> DNA
 <213> Triticum aestivum
 <223> unsure at all n locations
 <223> Clone ID: LIB104-010-Q1-E1-F4
 <400> 5101

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 acaccgacgg tgacggcttc atcgacttca gcgagttcat ctcttctgac aacgccaacc 120
 cggggctcat gaaggacgac gccaaagtct tctgaatcag ttcatttcac ctacgacgac 180
 cgttccagga gccgatccat ctacgtacgg ctctgtatat caatttcacg caactaccta 240
 ctccggtecc gatccagcct cagcttcacc tgaggccggc cctaaatttg tttgatcaat 300
 tcttttgcta ctagtagtaa ctagtgatga tcaactgtgc atcatttatt tattttattt 360
 atatatcatc acaagtttcc tacaaaaaaa aaaaaggana aaaaaaaaaa aaaacgggag 420

<210> 5102
 <211> 263
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-010-Q1-E1-F5
 <400> 5102

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 tgttgtatga tatacagtgc aatatttctt aatgtcaatt catcgagtta acctttccat 120

tttgagtcgc tgagactgag gagtgatgtg cagtttgctc tgtagacgc gtctgtcact 180
 ttcacttttc atatgctttg ttgtgtggat ccgcagagtg ctctttcctc ctgagtctcg 240
 gcaagaatat tagcaagcca tgt 263

<210> 5103
 <211> 383
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-010-Q1-E1-F6
 <400> 5103

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 tacatgactt gagaattcat tgtcttattg atttgcatga tcataagata gctagcatga 180
 tgttttcatg gcttgtccgt tttgtcattg ctatgctaaa tcattgcata tcccgggtaca 240
 ccaccggaag cattcatata gagtcatatc tttgttctag tatcgagttg taatatcgag 300
 ttgtaagtaa ataaaagtgt gacgatcatc attatagagc attgccccat ggaaaaatta 360
 aaaaatcaac aaaaagtttc cat 383

<210> 5104
 <211> 400
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-010-Q1-E1-F7
 <400> 5104

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 tcagaagggt gctactacg ccatccatca catgcgggcg atcgtaggg accatcatca 120
 acttctgcta ccgagtaaac tcaaagattg ggccgcgagc gtgtcgga tccaggacgc 180
 ggacctccga caagaattct ttccgatcca gtcggagttt gcggaaatca tccatcaaga 240
 tgtccttctg acctcggggc agttctacct caaaaatcaa ccgtccaaca gtgacatcga 300
 cacaatgcta caaatgcagg ctgacaacga ccgttatctc atgactccca cgatagacgg 360
 cggcttcacg catgctccgg tcccttgagt cgagtcgaaa 400

<210> 5105
 <211> 355
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: LIB104-010-Q1-E1-F8

 <400> 5105

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 aactcatcat catggtcggt ccttactctg cattcggttaa gcatcactcc acatgtataa 120
 cagcagatac actcttcatg gtaagacata gagttactgc aggcattcag atcgagatgg 180
 ggtagatctt aagaaagcac ttacagaatg taacacctga cgggagactt agcgaactcg 240
 cacatattaa tgagctggta cacttcactc agttcaattt gtgcatattc atgcctgata 300
 tgatgctcat gtccaacttc cacataaata cattctttgg cgtcattagc tttta 355

<210> 5106
 <211> 416
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: LIB104-010-Q1-E1-G10

 <400> 5106

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 cttgctgctc ctacttgcaa ttattatgag agaggaacta catctccgcc tctttatggt 180
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 catgaattgt tcttttatga catgccgatg cataggaata gagttggact tcgttggtgc 300
 atgatatatg tcactttgtg ctactacta aattacaaat cattgttaat taaaattggc 360
 tttgatatac cttgggatct cgggtggattc gttacgtgag cactaaatgc ctagct 416

<210> 5107
 <211> 424
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: LIB104-010-Q1-E1-G11

<400> 5107

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acggcctcga caggggcggc ggccccgggc tctgagttag tgaggctttg tgttgctttg 120
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ccaggatgtg atgggtccgag cgatgcggaa acgggtactgt aactgcatca tatgtttatg 240
gtgtcgatcg ccttggggtga tatcatcttc ggggtgtact ctagaaacaa tgggtgcttga 300
gctgtcatgg taaaagtaaa acattgcggt gtaatgctgc atttcacatg ctgggttagt 360
tatgttactt tcttgttcgt gtacgccgtg gtgctagtga ggtggctcct atgttggcta 420
agat 424

<210> 5108

<211> 372

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-010-Q1-E1-G3

<400> 5108

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acctgatgat caaaggatgc tgtgtcggcc ccaagaagcg cgtggtgacc ctccgccagt 120
ccctgctgaa gcagacctct cgtctggccc tggaggagat caagctcaag tttgtcgaca 180
cctcttccaa gttcggccac ggtcgcttcc agaccacaga cgagaagcag aggttctacg 240
gcaagctcaa ggcttgagct gccgccgagc atcatcagtt atatcatttt gtcaaaacga 300
acatgtgata cttgattact tcccctgcct aagttttgta ctagttagtg ttttcagaat 360
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<210> 5109

<211> 383

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-010-Q1-E1-G5

<400> 5109

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gcactacatt gatgttagtg thtagagtag gcaaatttgc atgtctcttg ctagttgatt 120
 ttactcttct ccgaatcata acttgtgatg tgtgcaagta cagttaacaa agaacagcaa 180
 cataaaagtg tgcaatagtt tggatccttc tgtgttgaat gatgaaatca tacttttagat 240
 ccttctgtgt tgaaagatga aatcttactt taaaaaagggt aaacaccttaa aatacagtta 300
 aagaaaaatg aaaagcccaa caaaagggtgc acaaatttca attcaagggg catctgttaa 360
 aaaaatccgt aactgggaaa acc 383

<210> 5110
 <211> 399
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-010-Q1-E1-G7
 <400> 5110

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 catgttcgca atgaaagata aattagatct ttccctggga gttgcaatag ggtcatcaac 180
 acaaatgtcc atgtttggga taccattttg thtagtgata ggggtggatga tgggccagcc 240
 catggacttg aactttcatc tcttcgagac cgcaagcctc ttaatgacgg tactggttgt 300
 cgcatttttg ttgcaggatg ggacttcaaa ttgcttaaaa gggttgatgc tgtttctatg 360
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<210> 5111
 <211> 372
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-010-Q1-E1-G8
 <400> 5111

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 aagccgcggg cggtgctgac gtgcccggag aagaagatga tccagcaggt ggtgttcgcc 240

agctacggga acccgctggg gatctgcggc aactacacgt ttggcaactg ccacacgccc 300
aaggccaagg agattgtgga caatgcgtgc gtggggaaga ggagctgcgt gctggccgtg 360
tcgcacgacg tg 372

<210> 5112
<211> 430
<212> DNA
<213> Triticum aestivum
<223> Clone ID: LIB104-010-Q1-E1-G9
<400> 5112

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aagctgggccc agaagtctgt ggtcgacgtg gacgcctgga tggacctcgc cgccgccggg 180
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acgctgctcg agtttcccca gatctccgcc gtccgggtga aggtcgggaa gccccacgtc 360
gcggtgcatg gcgtcgtcga ctacctcggg gtggagatac tgaggaggcg cagagaggca 420
tgagcacaag 430

<210> 5113
<211> 397
<212> DNA
<213> Triticum aestivum
<223> Clone ID: LIB104-010-Q1-E1-H1
<400> 5113

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ccgggctcat gaaggacgtc gccaaagtct tctgaatcag ttcatttcac ctacgccgtc 180
cgatccagga gccgatccat ctacgtacgg ctctgtatat caatttcatt caactaccta 240
ctccgggtccc gatccagcct cagcttcacc tgaggccggc cct'aattttg tttgatcatt 300
tttttgetac cagtagtaac tagtgatgat cactgttcca tcatttattt attttatatc 360

atcacaagtt tcttttcttt ctctaccttt ttgtcga

397

<210> 5114

<211> 396

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-010-Q1-E1-H11

<400> 5114

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cagataagac gggcagcaga agctcagact atatgatcat ggtggtaaac ggtggtaggg 180

ttgcagatca gcaacgcaga ctgcaacccg caagctgcag tggcagcgtc cgaaagagat 240

gcgcggaatg tacataagta gtgcgagcgc gtggaacttt tgtctgaaga gatgattttt 300

tcgtatgtaa ttgcagaatt tgactctctt ttttcgttta tctctgctta gccagcagtt 360

gatccgtgat ctataacggt ggcagtatat ttatga 396

<210> 5115

<211> 380

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-010-Q1-E1-H4

<400> 5115

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tttatgcctt gatgcagtat atcactttcc cgttcgtggt cagggtagca tgaaattagg 180

cagaatggca aaatcagcag catctactgt gaacacaagg cgaagagaaa agggattgct 240

tcctcgtccg gtaactcaat tgatttgttt tgcttcctgt cttttttttc tctatacatg 300

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tgatcatagaa gtaatgtttg 380

<210> 5116

<211> 409

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-010-Q1-E1-H5

<400> 5116

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ctccgatggt gccgagattg gtcacttgc agtgctggcg gctcaacctg cggaatcgcg 180
gcaccgccat ggagactccg ctgacgggtc agattgtcga gttcaacacc aagggtgtgcc 240
tttctgggct ccatttcccc ccggttcatt ttgggttttc gtgcagtgc gtgaggctgt 300
tgctctacat gctggtgttg gtggacctgc tttgcagggt atgcaggagg agctgaagaa 360
gctggggctc aaggtaacc accatgaggc caacatcacg ttcctcaag 409

<210> 5117

<211> 406

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-010-Q1-E1-H7

<400> 5117

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ctgagttgaa cggctgctta gttgtggttc ataataatca tgacatatct atggacttgt 180
ggtttttgac agattttgag aaaggctctt gggtaagaa atacagcttg ccttcacatg 240
ttgctaggct tttttggtat ctttttctca tgttgatga tgggagaatt ttcttcagtg 300
ggatggattg tctggaagg atattaagt gtggagagca aggagaggga tttctgcaat 360
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<210> 5118

<211> 433

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-010-Q1-E1-H9

<400> 5118

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 acttcgttgg caacccaaac cctggccgta tcagacactg agcataagca ctttgccatg 180
 tagatagaga agagtgcacg aagctataaa taggtacaca ggaagcaaat aggtttgtgt 240
 ttggatggca ctacatgttc ataggagtgg attgcagagc gtgtgttcta ccagtaatga 300
 gagattagct ttaatgattt ctcttttgtt ttgggtttgc actgaatttt gtgtggatgt 360
 gtgcaaagtg caatttgact gcactgggtg agtcacgagt gaagaacact tgcatttttg 420
 cagaaatatt tat 433

<210> 5119
 <211> 398
 <212> DNA
 <213> Triticum aestivum
 <223> unsure at all n locations
 <223> Clone ID: LIB104-011-Q1-E1-A1
 <400> 5119

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 actctcatgc ttcacttata ttatttttga gagtcttaaa caacatggta atttgctttg 180
 gttataaatt tagtcctaatt atgaactttc atataaagtg cattgaatac tatgagaagt 240
 ttgattcttt atgattgttt tgagatatga agatgggtgat attagagtca tgctagtgg 300
 gtagttgtga atttgagaga tacttgtgtt aaagtttgtg attccggtag catgcacgta 360
 tggatgaatcg ttatgtgatg aagtcggagc atgattta 398

<210> 5120
 <211> 417
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-011-Q1-E1-A10
 <400> 5120

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 acaacttcgt tgagagcgaa ctgaggattg aacttggcaa agatgaagag gctcgagtca 120

agttgacgag aaatgcaccg gatgaaaagg gctgaggaac aacgatcgga aaaccaactg 180
 cgtgaccta aagaaaattt ttgaagggga agagaagtaa ttcaaacac ctacgtcaag 240
 attcctcacc agagcgacga aggggctgag gagtaaaaag aattcctact ctccgatata 300
 ctagactcca aaaatagttt tcttctagac tcaacaacgg ccaaactaca cgatcaatca 360
 agggggctcc taaggctcgg cgaggctctg ttaccaactt gtcatgccca atatcca 417

<210> 5121
 <211> 375
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-011-Q1-E1-A11
 <400> 5121

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 tttgatgttt gggtaattcc catgcttaat cccttaggg tcatggaccc aaatttagag 120
 cgaattgtag atatgggttt ttctcctcca aatgatcccc aaagattatc tctagaggat 180
 gataaaaact cttatctcaa tgctcaactt ctaatgtgct ttttgatgct ttgagcaatg 240
 tagttatatt tcaactcatg tcgttctggg atgctcatga gttgtggaca aagcttcaag 300
 ataaatatgg tgtgttcaag atttgtgggg atgattgttc tccctccacc tccggccgtg 360
 ttgccttctc aactt 375

<210> 5122
 <211> 250
 <212> DNA
 <213> Triticum aestivum
 <223> unsure at all n locations
 <223> Clone ID: LIB104-011-Q1-E1-A12
 <400> 5122

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 taatccatt ggggtcacgg caccaaattt acagcgactt gtagataggg gttatttcac 120
 atccatatga tccccaaaga ctatctcgag aggatgataa attctcgtaa ctcaatgcac 180
 aacgtccaac gcgctttctg ttgctttgca caccgtagtt agacctcaac tcatgtgaga 240

ctgggatgct

250

<210> 5123
<211> 422
<212> DNA
<213> Triticum aestivum

<223> unsure at all n locations
<223> Clone ID: LIB104-011-Q1-E1-A2

<400> 5123

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tcctcaaaac atccaccata cctacctatc atggcatttc catagccatt ccgagatata 120
ttgccatgca acttccatca tcatcatata catgacttga gcattttattg tcatattgct 180
ttgcatgata gtaagatagc tagcatgatg ttttcatggc ttgtccgttt ttttgatgtc 240
attgctacgc tagatcattg cacatcccgg tacaccgccg gaggcattca tatagagtca 300
tatctttgtt ctagtatcga gttgtaatat tgagttgtaa gtannatana gtgtgatgat 360
catcattata gagcattgcc cctaaaaaaa aaaaanaana aaaaaaaaaa aaagcggccg 420
ct 422

<210> 5124
<211> 190
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-011-Q1-E1-A4

<400> 5124

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ccaaagattg gcggtggcgg cggaagcgt tgaaagttga ttacgccata gacatagagt 120
tgtgctgcct agccttggtt cctaacctac tagcatagac ctttgtcaag ttattacccc 180
gccctcctga 190

<210> 5125
<211> 441
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-011-Q1-E1-B10

<400> 5125

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aagtctgagt gagtgatgga tggatcatca ggatgagcta tatttgtagg gcttattata 120
cccaggctgt attaccactt gccagaatac aatagttagc aggtacacca gttccagctg 180
agctgctgag caaagctcat catactatac attttcttca tctacagggg tgtttcatgg 240
gtgatggctg acatgttggt ggtgggcatt cttgtacttt tggaccagat tctttgatgt 300
atTTTTtgat cttctgctta ttcttagata tatatacatg tgtatcctgg gtctactttc 360
tgatcgaggc agtgaatcaa ccttggtttt ttctactgag gttgtgtgcc tatgggatga 420
tgaaagctgc attcagaaaa t 441

<210> 5126

<211> 412

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-011-Q1-E1-B12

<400> 5126

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ggatgcctat tcgggggttcg attcagggtc tagtcgcttg ttgggggtct tttccatttt 120
ggcaccgtag tcgggccatg agtgattgta tgatgaatgt tatttatgta ctttgatgtg 180
acgtggcgag tgtaagccaa ctatgctatt attccccttt atattatata tgtacttggg 240
ttgtgttatg attcccgact tgcgacattg ctttcaatgc gcctatgtct ctaagtcgtg 300
cctcaacacg tgggagacat agccgcatcg agggcggttac aaccggtgac cccgaaactt 360
tcccgttggc caaaacaaca ctctctatat attattcttc acctccggac ca 412

<210> 5127

<211> 404

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-011-Q1-E1-B7

<400> 5127

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ccagccagag acaccagcgg ccgaaacaac tgatgcctat gccgcgccga gaccgaggct 120
gtggaacaag aagattggcc atctccccct gccgcactaa gtccaacagt ttacccagtt 180
tctgagcgat caaccaaaaa aacttccccct ctcatctcac ttgaggagct actatgactc 240
tatgaccgga ttttataccc caattttcat tgtgtaaccg cttatccaca atgtaccact 300
tatgcaactc cgtttgagct gttattgtat tgctatgtaa agagaactca tgtacctgtc 360
atgtaagaaa aaagaaaaca ccaaaaaaca aaaaaagcg gccg 404

<210> 5128
<211> 453
<212> DNA
<213> Triticum aestivum
<223> Clone ID: LIB104-011-Q1-E1-B8
<400> 5128

gtaccggtct ggaattcccc ggccgacggg caaacagtgg cttaatgaaa ttgacaggta 60
tgctagttaa aatgtgaaca agcttttggg ggggaacaag tgcgatctag ctgagagcag 120
agtggtttct tacgaggtcg gcaaggccct tgccgatgag attgggatac cattcctgga 180
aaccagtgcc aaggatgcaa caaatgtgga gaaggcattt atgaccatgg ctgcagagat 240
aaagaacagg atggcaagcc aaccggctgg aaatgccagc aagcctgcca ccgtgcaaatt 300
gcgggggtcag cctgttgccc agcaaaacgg atgctgctcg tcttgatcaa cactcaagat 360
cacagtagtg ttcttgcaaa actcagttgg ttgttcttcc cctgtaaatt aagtgtacta 420
ctatcatgcc gtctgttgga agaagtgtca tgc 453

<210> 5129
<211> 398
<212> DNA
<213> Triticum aestivum
<223> Clone ID: LIB104-011-Q1-E1-B9
<400> 5129

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gggcgaggat cgccacctac ctgccgggca ggacgggaaa cgacgtcaag aacttctgga 120
gcacccgcca gaagcggtc gccaggctgc tgccgcggcc tctccgcgcc cggcccagca 180

agaccaggag cagcaacacc aaagcgcccg catcctctct cgagtcgcc atgggttctt 240
gccatgatca tgttccgtcc gtgggcaact cctccggcgg ccaaagcttc ccggtgcac 300
cgcccatgga gcaccaggac accgcgcgaa tctcgcatga tcagatgtgc tctggattcc 360
tcagtttcga gccattgccg ctgcaggcag cagcaccg 398

<210> 5130
<211> 228
<212> DNA
<213> Triticum aestivum
<223> Clone ID: LIB104-011-Q1-E1-C10
<400> 5130

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tatgtcgcca ggtctccaca aagcaaaata ttgtaacatg taccctcacg tatacgaggg 120
cacttattca aacagctact cctatgtaag cacagtataa cttggggtct gctcaagtgt 180
tgtgatatac tattcataaa taaataaata tactatacag ttgttcag 228

<210> 5131
<211> 404
<212> DNA
<213> Triticum aestivum
<223> Clone ID: LIB104-011-Q1-E1-C11
<400> 5131

attccccgggt cgacggggcca actgattttc tcctcttgca gttggggttcg gtcgatgaag 60
actccaccgg ctgcgtctgg caggacaccc tcacaaatgg caccttgtag atgctcgatc 120
cttcaatctc tgggtggatgc tccatctggg attgatactc ccatcaccgc tccctcacga 180
tcggattcgg tgaatgtggt tgctccatgg ccagaggag cagctctatg tactccggcg 240
cgaectccctc caggtgtatc gccgcctttt cgctctgttg cagatatttc gccatggatg 300
tcgccgtcgc cgctagttgg tccttggttg caaaccaaga ctgtatctcc aacatcctag 360
ctagcttcac agggtcgccg tccgcgatcc tcatgtatcc gttg 404

<210> 5132
<211> 285

<212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-011-Q1-E1-C12
 <400> 5132
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 gctctggcat gacaccctca cacatggcac cttgttacat gctcgatact tcaatctctg 120
 gtgggtgctc aatctgggac tgatactcct atcatcgctc tcgtcacgat aggattcgtg 180
 atgaatgtgt tcgctccatg tttccagtgg atcagtctct atgtactccg gcgttactcc 240
 ctcgatctgt attgacgcct ctttcaactct gtttgacat atttc 285

<210> 5133
 <211> 397
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-011-Q1-E1-C2
 <400> 5133
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 gtaggacacg tagcaagaca ggtacaaatg gatcagatct caagggttgt cgacgaactt 120
 gtcgttctac aagtgttaact ctacggcatc atatctgctg tggtaagggt gttaaaagat 180
 tactagcatc acactaattc agatattatg aacaggcctg tatgtatgga ttgtgatcga 240
 ctacacctta aggttgtatc aatatgtgat gactgagact tccctgataa cgtgtgtacg 300
 ttctttatgg aaacatctgc aatgtctagc catgaacgtt gagactgcct tcaactgaggt 360
 tctgactcag atctatcgtg tagtcagcac gaaagcc 397

<210> 5134
 <211> 393
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-011-Q1-E1-C3
 <400> 5134
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 ccaactggatg tggttttgag ggatttttgc actgggggtt gtaagggtgct atgccgcgct 120

gggtttggga tttgaaataa aacgaacgga gatgtgccac gctcttaatc acaaaattaa 180
ctattactga tataacaaag ataactcata atgaaaaaaa cctacactaa aaagcaagca 240
tcaccacaaa gtataacctt gtcataaact ggaaatgaaa ataataacca ttagggggcca 300
cactaagtgc tttcattcac cataccatca aaagtaaata actcaccctg aatcaggccc 360
tttaagtcgc attcaagggc tgcattttaa aaa 393

<210> 5135
<211> 447
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-011-Q1-E1-C6

<400> 5135

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gctttggtgg aaaagggtttt tctgttctct ttttcatctt cttatctgac atgctatgca 120
cttcataaac tgtccagcta cctaattgtg cttgcagtgg ctttgagtat ggtagatcaa 180
getgcaaaac cacttgcccc tctgtcagg gtaagcttaa ctaccttttc cgtgttatat 240
gagtgtggca ataattggaat gccaaactatt attaatata ttttgagcta aatttcttat 300
gtgtattctg ttccttgaag gtatgggttc ttgatgctac tcttggaata gttcgttctg 360
ggctagatgg cgaagatcat cccgttgaac ttattgattt cctcagaaga atgcctgtgc 420
aggttggcct tttagaacta tctatgc 447

<210> 5136
<211> 415
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-011-Q1-E1-C8

<400> 5136

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cacagtcgct catccttggg gatgccaaag gcatccatt cacagattgt acggatgtca 120
caatcgtcga atgctttggg atgccccggt tggaacccta atcgttcttc atcaacatcc 180
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gctctcattt tatggtgctt tgcattgctgt ttgtatagga taccaaaact ctgaaattat 300
 taaatgttag cgaatcttca catatatgca tagctatgcg ataactcatt gatcttcacc 360
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<210> 5137
 <211> 378
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-011-Q1-E1-C9
 <400> 5137

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 taggtgtgct cgatgtgctt cacgtatatc gtttgagcaa tatacatttt ctcgaggtgc 120
 ttcacctaga tccttagaga gttatagtta tgctcgacgt gttcaatta catcctctag 180
 agcatggtgg tggatccttt tgcagaaaac agtgatcgct caggcttcac ttaaattatt 240
 tagagagact cataggatca tgggtagatg cttaataata atatgcttgg tattcaagat 300
 ttgtgaaact ttcttttgag tgtgttgaat actaggagaa acgattggga tcatgataaa 360
 tgttttgata tatggaag 378

<210> 5138
 <211> 401
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-011-Q1-E1-D10
 <400> 5138

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 ttgcaataac ttagtttcgt tgcaataaat actaactttg ttgcaatata ggccctcatat 120
 tgcaacaagc tgtatcggca tagcaatatg gtaccagtat tgcgacaaac aaattccggt 180
 gtgcgagggc cgtcatttcg ttgtaataga gactaggtat ttcaacagaa taactattcg 240
 tggcaatatt cagaaagata ttgcaacatc gatgtgatgt tgcattagtt acaaattattg 300
 ttgcaaaaaa gtggctaact atagcaacaa aatgcatagg cgttgcaata tgatagcgat 360
 attgcaacca acaaattcca ttgcgcgaag catccgtttt g 401

<210> 5139
 <211> 424
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: LIB104-011-Q1-E1-D5

 <400> 5139

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 gaagtggctg aagccccgtg ggcataatctt catcaggagg tcttgcttcc accagtctgg 120
 ggattccaag aggaaagtga acccgacgca ctaccgggag ccaagggtttt acaccaaggt 180
 gttaaaggaa tgccactcct atgaccaaga tgggaattcc tttgagcttt ctctggtaac 240
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 atgggagaag gtcaagtgc cagaagacaa aggctttcag agattcctgg acaatgtgca 360
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 cggg 424

<210> 5140
 <211> 453
 <212> DNA
 <213> Triticum aestivum

 <223> unsure at all n locations
 <223> Clone ID: LIB104-011-Q1-E1-D6

 <400> 5140

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 ttttccacgg aaattttcaa aactcaaagt agtacatttt tgtttgcaa gttttagaaa 120
 gtgggtagac cgaaatcagg gatcactcta ctacttctc tgttcacttt tataaggcct 180
 tgtagacatt tcagacagca tgcaaagcag gtcagttgtt tgaaacgaat tataaaaagt 240
 aacgtaggga gcggtgactg tacatctctc agtggttgga aacatggaag agcggtagcg 300
 gcaagcttta accataagta gccacactg aggcttgatt tcccagcaca aaagttgctc 360
 gcaacagaga actgggcggg atccanagac ggagcacatg atgaagagtg aacaaaactg 420
 gcagcggaga gtgggaggag aggagaggag agg 453

<210> 5141
 <211> 413
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: LIB104-011-Q1-E1-E10

 <400> 5141

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cgtatatttc ccgacaaacc ggttacacta agaccactg aaacacgtat gggctcggga  180
aaggggtccc ccgaatattg ggtatccgtt gttaaacctg gtcgtatact ttatgaaatg  240
gggggagtat ctgaaactgt agctagagca gctatctcca tagctgccag taaaatgccc  300
atacgaagtc aattttattcg attagagata tagaacccta aaaggggtat ggaagataaa  360
aaaaaaaaatg cccggttttt ctttctggaa agacaatatt tctttcatcc ttt       413
  
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<210> 5142
 <211> 380
 <212> DNA
 <213> Triticum aestivum

 <223> unsure at all n locations
 <223> Clone ID: LIB104-011-Q1-E1-E5

 <400> 5142

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gccagatcaa ctacgaggag ttcgttaagg tcatgatggc caagtgatcc cgccgatgtc  120
ccggtggacg gtggtattat tattttaccg gggaggagga aattgtgcta tgcattattag  180
tagtaaggaa tgcggctctc gtttccttgt ctttgcccca aaccagaaga agcgtactag  240
tagacgtagt tgctgaagag cattcatgga atcctcctcc cctgctgcta ccttgtctct  300
ctcccggtgtg tcattgaaac atctttcttt ctgtgtggca aaaaaaaaaa anaaaaaaaaa  360
aaaaaaaaaac cggccgctct                                     380
  
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<210> 5143
 <211> 302
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-011-Q1-E1-E6

<400> 5143

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gttgggtctga aagttactct tcatagcaag tgccagaatt tttttccttt tctgttccca 120
ccgggtgtga aactatcttg tagctgtaga tatattgatt atggaaggct gaagttcgca 180
attgatgcaa gaaaaaaca aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 240
aaaaaaaaaa aagaacaca aaaagaataa gctaaaagat taactctaag gtaatcaaaa 300
at 302

<210> 5144

<211> 448

<212> DNA

<213> Triticum aestivum

<223> unsure at all n locations

<223> Clone ID: LIB104-011-Q1-E1-E7

<400> 5144

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tctctcagaa aaatcaccga cattctgccca ttataccatg gaggcctgga ggaagacaac 120
catgtgttgc ttgattcttt tctgccttat ggctacatgt agtgaggttt catctaccga 180
aaacatgtgc tatcacaacc attggaataa atgccatcct gatcaaaatg gaatgtgtcg 240
agatagtgtg gtgaaagatg gatgggatga tggacaatgc cggaacaggt ttaaaagact 300
aaagggtgcc aagtgcgaat gttaccctaa gacttgtgat cattanggag gcaacatgcy 360
actttcttct accaagttac tactatttat aaatttacat cgggttttaac gattgacgtc 420
aaacatgttg taacaccaat catggtga 448

<210> 5145

<211> 247

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-011-Q1-E1-E8

<400> 5145

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 gccaatgccca cctatgttgg ctaccagcac ccagagccat gcatctagac gtacggccaa 120
 ttgggtttcc tttttcctct tctaaagtta gcgttttcta aacgttttgt tggttcctgg 180
 tgcttaaata taggaccatg aaataattgg atttaattca aaataagtca attctaatac 240
 acacgaa 247

<210> 5146
 <211> 425
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-011-Q1-E1-F1
 <400> 5146

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 tcaggcaccc caacatagtg tccctcctgg gcttctgcgt ccatggtggc aatcactaca 120
 ttgtttatga gtcacatggag aagggatcat tggagacaca actgcatggg ccttcacatg 180
 gatcggccat gagctggcac gtccggatga agatcgcgct cgacacggcc aggggattag 240
 agtatcttca tgagcactgc aatccatcgg tcatccatag ggatctgaaa tcgtctaata 300
 tactcttggg ttcagacatc aatgctaaga ttgcagattt tggccttgct gtgacaagtg 360
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 actta 425

<210> 5147
 <211> 438
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-011-Q1-E1-F4
 <400> 5147

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 gatgcggcta tagtcccat gtgtcgaggc acgacttaga ggcataaccg cattgaaagc 120
 aatgtcgcaa gttaggcaat cttcacaaca tcccatgtaa tatagataat aaaaggggag 180
 atacatagtt ggcttacact cgccacgtca atcaaagtac ataaatagca ttacaacatt 240

caaacactca tggcccgact atggcgccaa aatgaaagat aaacccaaca tgcgacacgg 300
 tcccgatcac cccaactggg caccactact gatcatcagg gaaagacaca tagtaacggc 360
 gtgagtcctc ctggaacttc cacttgagct caagggcgtc atctggaacg gaatcatcag 420
 gccctgcatc tggtttgg 438

<210> 5148
 <211> 437
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-011-Q1-E1-F5
 <400> 5148

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 atacataatt tttttgctaa actttcattg ctaagtgtat taattaagta ctatacggcg 180
 ttcttcaaca ggactgccga tgacagttgt gcctcagggg atcgagacta aaggtcagat 240
 gtcaattgtt agettacggc caagatatcc tgcattgcac atgaatgcat tcaggatttc 300
 tagaagcgat gaatgcttaa tagtgaaaga ttggaggaaa attgttaatg atcgagaga 360
 agtactacgg ggcagcaatg agaagcgcaa cccacgatta ggagacaggt tcactctgcat 420
 gccccagtat gatcaat 437

<210> 5149
 <211> 188
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-011-Q1-E1-F7
 <400> 5149

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 aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa tacaacaaaa aaataacaac aagaaagaca 120
 aaccggccgc tcaaacgggt ccaagcctac ctactcatgc atgtaacgct ctaccgcctc 180
 aaaagggg 188

<210> 5150

<211> 375
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-011-Q1-E1-F8
 <400> 5150

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 gggttttctga gttgtggatg cataagttag tatgtcgaac aagttcaaca tatttcttcc 120
 agataaccca tgctaaagag gaaggactgg cagattcaca atatagaatg gagaactcat 180
 cgagagcact tttgttgtga tctttcggct caaaagaact tctgccaaga atggttcatg 240
 gtatttggca gaatgaaata ccacggacct cgaggactat cgcaacagtt actaataacc 300
 taaaggaact agcagatact accatcaaga agtacgtaga gtgaatctcg ggttcaaaaa 360
 ccaatgagta gaata 375

<210> 5151
 <211> 417
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-011-Q1-E1-F9
 <400> 5151

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 taattcacag atatactgta tagctttgtc cgactagaag ctgaagtgtat atgttaagta 180
 tcgaatgact gaattagaga aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 240
 aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 300
 aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa agggggcccc caaagggttt aaaccttaat 360
 ttcccttgaa gggaaattta aacccctca aaaggggccc caaaattcaa ttcaagg 417

<210> 5152
 <211> 433
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-011-Q1-E1-G1

<400> 5152

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agaaaactcg ctactattat atccttaa at ttttccatt ctcatataag ggtgatgcta 180
agatattttt tgattctctt gatcctgggt gtgtgcgtag tcccaggat ttgatttatt 240
atgtctctgc taaatatttc cctactcaga agaaacaagc tgetttaagg gacatatatg 300
attttggtgca aattgaagaa gagagtctcc cacaatcttg ggggaggctt ctccaattac 360
ttaatgcttt gcttgatcat cctctcaaga aaaatgaaat acttgatata ttttataatg 420
gactaaccga tgc 433

<210> 5153

<211> 407

<212> DNA

<213> Triticum aestivum

<223> unsure at all n locations

<223> Clone ID: LIB104-011-Q1-E1-G11

<400> 5153

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tcccacaaaa caatcctgcc tttcaaaata tcaatgctaa agatcggttat ccatacaaaa 180
tcgtatagtt gtaacacccg gataattaag ctactgtaat cccctgttaa tgatgccagg 240
tcacgcgttt tactgttgct agaaatcacg ttcatccaat atcagttcaa attcaaattt 300
aaaaacaaag taaaaattta tagttttcaa aatgtcgaaa ctaaaaaatg caaaccatga 360
caaataatcc agaggtaata atgggtgaaga aaccagattt tttaata 407

<210> 5154

<211> 429

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-011-Q1-E1-G4

<400> 5154

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gtagtttgtc atttgcctca atgcttcaact tatatcgttt tagagcatga cgggtggtttt 120
 attttgaaga aatagatgaa ctcttggtgc tcacttatat tattttgaga gtcttttagaa 180
 cagcatggta attttctttg gttatgaaac tagtcctaata atgatgggca tccaagatgg 240
 gtataataaaa aactttcata taaagtgcac tgaatactat gagaagtttg atacttgatg 300
 attgttttga gatatgaaga tggatgatatt agagtcacgc tagttgagta gttgtgtatt 360
 tgagaaatac tttgtgtaaa gttgtgtatt cccatagcat gcatgtatgg tgaaccatta 420
 tgtgatgaa 429

<210> 5155
 <211> 181
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-011-Q1-E1-G7
 <400> 5155

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 cagtactgca ccaagctgtt attttttgcc tttttgaaaa gaagcacgtg tcgctgtgtt 180
 t 181

<210> 5156
 <211> 381
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-011-Q1-E1-G8
 <400> 5156

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 ccactccaag gggcacgctc tgaaccagg gcaaaggac tggacaagg accagccttg 120
 ggaaccaaag aaagaagagg ccacctgatc tgtatgaatg gtacctgata atcctcttct 180
 atgtttcgca tttggttttg tgtcgcggt ctaaaaccgc cagtcacctt gggttcatgg 240
 actggacctg aataatgtac tctatctgat actgaatacc tgccactgaa caattttaat 300
 ctctgtggat gtggcaattg agaaactggc gattcgggtc tcggtgtttg cattgaagag 360

tttctttttt ctactgatgt c

381

<210> 5157
<211> 436
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-011-Q1-E1-H6

<400> 5157

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aaccagagag tttgcaagcc catctccgtg agactgagat cccattggtg agatcaaact 120
gattaggggtt tctggtagtg gctatgtcaa gtgaactcgg tggctccgga tagatcaaact 180
tggtagggct gagtttgaca tttggtttgg gacatatgtg gatatgagaa agtgggttag 240
ggctttggag catatcacta agcactttga gcaagcaagc cattaagaaa cacctcatcc 300
ctttttaata gtattgactt tcctaaggac tcaatgtgat cttgaatcac taaaatgaaa 360
acgtagagtc ttgagctttt gagcttttgc caatcctttg ttcttagcat cttgtaaggg 420
ttccacatcc tcttgt 436

<210> 5158
<211> 435
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-011-Q1-E1-H7

<400> 5158

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gcgagaaaga acaaatcagg attcaatgcc ctgcacatca ctgcaaagga aggccacgga 120
gaccctactt gtgccattgt gtgttcctcc acttctggcc tcctccatta ccagtgacta 180
acactacaat aaatatgcaa ataattagtt ttgctacact atagtagcaa caatccttgc 240
gtgacaatta ttgtaccgat tacatcatag caaatcatag caaagggaca atatgagggg 300
ccttcaaact gcagtttgag agacaatctg tttgtcctat ggaggtgctc aatggactta 360
acatcagaat agcctggctt tcagaagaaa agatgacagc tttattttgt tgttgtagtg 420
tgcctattcg gaaac 435

<210> 5159
 <211> 371
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-011-Q1-E1-H9

<400> 5159

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 aaaaaaaaaat aaattcagaa aaaaataaaa atacagaaga agaaaaaatt taaaaaaga 120
 aataaatgag aaaaaataaa aaaatataaa taaaaaaaat agggggcccc cagaggttta 180
 aattttattt tgtctttctt gcaactttaa gacccttaat cgttttcctt aaaatataat 240
 ccttggggtg tttttttaa acttctaaag gggaaaaccc ctggttttac ccaatttaac 300
 cccttttgaa aaaaccccggt tttcactaat gtggttttgt ctgaatgggc ccacatttta 360
 ccccttcca a 371

<210> 5160
 <211> 425
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-012-Q1-E1-C5

<400> 5160

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 tttgtttctg gaagaatgat aacgaacaat gcactaattg cttttgagtg cattcattat 120
 atcaagcaag aaaaagatcc aacaaaaagc ttatgtgcat aaaaactaga cctgtcaaaa 180
 gcatatgatc gggtagacta gaacttcttg aggcaagtga tgcaaaagct ggggttttga 240
 tcatcgatgg attgactgga ttatgacttg tgtcacatcg gtgagatgtt cggtaagatt 300
 taatggaacc ctcttgatt catttgcacc gtcgtgtggc ctacggcaag gtgatccact 360
 ctcctcttct gtgtttctgt ttgttgctga cgggctttct caatcctacg acaacgtgtg 420
 gatgt 425

<210> 5161
 <211> 114

<212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-012-Q1-E1-D10
 <400> 5161
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 cgaacccttg catgcaactt acttgccctc caaaattctc gcttagattc agtt 114

<210> 5162
 <211> 345
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-012-Q1-E1-D5
 <400> 5162
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 taacttgga cgcgggtgct tcaaagtgct aacaagactt ggaactccag caaaggaaga 120
 ttgtacatat gtgactttgt ttaggcagtg tagggagggtg ctaggcacaa ggtttattct 180
 gtgcgacca gtgtatctat gttgatatgt taggggtgtgc ttatccacac tgcactagtt 240
 ggtagccgtg tgcaaaatat gtatagtacc agtgggttgg cttgtatgtg tgatacatgt 300
 gtgtatcttg actgcttggt aatgtaatgg cttgggttgc tgctt 345

<210> 5163
 <211> 447
 <212> DNA
 <213> Triticum aestivum
 <223> unsure at all n locations
 <223> Clone ID: LIB104-012-Q1-E1-E5
 <400> 5163
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 cgattctgca tcaattttct cactgcatct tggctgtaaa cggactgtag catcgattgt 120
 tggagagaca ggatcttcaa agaactcctt tgctgaaact gtaattatgc agtcattctc 180
 agcactcgaa ctatccactt tgataaaagc tccagattct tgctaatct gtttgataat 240
 accacctctt tttccaatta cacctccgac attcgccgca gcacaaagca gacgcaggct 300

aaactctttt gcagagctca cctccctccg ttgttggtat atagaaggcc aatctcccac 360
catatcacct ttgtatcgtc cataaggact aaccatagga gtaatcccta caactgggtgc 420
agtagaggaa ctnacaaggc gggatcc 447

<210> 5164
<211> 421
<212> DNA
<213> Triticum aestivum
<223> Clone ID: LIB104-012-Q1-E1-E6
<400> 5164

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aaccgaccat gcacgccgat cagctattac cggcgggtcg cgccgcgggtg gccatggctt 120
gcctgctcat cgccggcccg gccgacggcc tcgaggagta cgcccccttct gccgcgggtga 180
gcctggagat tgagccgctg tccatgaacc agaaccgccg ggagttcctc ccgcgaccgg 240
aggtgatgtc gctgccgacc gatctgctct caaggccaga cgtgggtggc gacggtgagg 300
ggtagtccc gcatgtggag gttgtgccag aggtggtgct gcagcccgga gacccccctcg 360
ccgaggctct cggcgggtggc tcgtatgcat aggagccatc gacagagccg gtcacgctca 420
t 421

<210> 5165
<211> 412
<212> DNA
<213> Triticum aestivum
<223> Clone ID: LIB104-012-Q1-E1-F5
<400> 5165

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gactgactac aatggtaggt tgcgtacgtc cttatacat cactactagg tgcttatggt 120
acttcgttct gtccggttat tagcactcat gtttactttc gcactgagaa ctgaaaaact 180
gaatgtaaatt ttagtatgga tgccgtgtat gtggaccttg tggtgtaatt ccgttttaaag 240
caaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 300
aaaaaaggaa aaaaagaaaa aaaaataacc aacacataaa ggggtctccc aataggttca 360

aagcttttagt ccacggacgg gcaacttcat accgctgcta ggatgtaacc aa 412

<210> 5166
 <211> 446
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-012-Q1-E1-F7
 <400> 5166

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 cggttgaatt catcctcatt ccttccgtgg gacctaaca tgcattccaa ggacacatgt 180
 acatttttct agccattttg gtgcactaaa gcatgtattt gtagtttgta tttgaattat 240
 ggacattcct ataaaactcg gctaataaaa caataaggtc aaatgaaccc tgaataattt 300
 caaagttcag cgtgaatctc ctgttgctcc atgttacgtg tagaagaaaa tacaaggcta 360
 aaagagggag cgattatcct ttcaccaca aggggacacg tttccctatc gaaaccacga 420
 cggttcttgt gacaaggctc cggttt 446

<210> 5167
 <211> 442
 <212> DNA
 <213> Triticum aestivum
 <223> unsure at all n locations
 <223> Clone ID: LIB104-012-Q1-E1-G1
 <400> 5167

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 caggacagaa actttggctg tagtgcgca ttttacatgt tttactggaa tgtcaaacgg 180
 ttctgattct ttttgactg tctttccata caaattgttt atttttccaa attttggcag 240
 aattttcaag taacataagt atggttaatg ttcagattgt tacagactgt tctgttttag 300
 acagattctg ttattgatgc atagtttgct tgttttgatg aaactatcaa tttatatcag 360
 tgtattaagc catgaaaaat ttatactaca gtagacatga tgcaaaaaca aaatatgaat 420
 tggtttgcaa cagtacttag ag 442

<210> 5168
 <211> 444
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-012-Q1-E1-G5

<400> 5168

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gagcactata tgcttagctt aatggcttta aagaaagcgc tgccagggag acaacccgga  120
agttttagag agtcatttat ttctgttggtg tgcttttgta aagtttaaaa acaataataa  180
cgtgccaaagg tttgccttta ggatgttttag attgcttggtt ggtttgtgcg gtgcggaaac  240
agaaactttg gctgtagtgc gtgattttac attttttact gaaacgtcaa acggttttaa  300
atttctttgc actgtcttta tatacaaatt gtttatcttt cctaattggt tcataatttt  360
tggagtagca gaagtatggt gaatgttttag attactatag actgtcctgt ttaagacaga  420
ttctgttttt aatgcatagt ttgc                                           444
  
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<210> 5169
 <211> 445
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-012-Q1-E1-G7

<400> 5169

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cttgatcatg aacgtgccgt gggcttgaaa agaatcgagt tgcattgtag aagcccatgc  180
aatgggtgcg atgccatcga ccttgagtcc ctgagaagat cccaggcgga tgaagctagc  240
aggcatcgga ttaaggagca actcagacat ggatcttcct cgtccgtgga gatagtaatc  300
tgctgatgga tatggtgaag gaatgataaa tttcataaag ctgctcgagc gatgactgta  360
cgaagtgcag gcagtcgtaa ttttaagttc agttattgat agtctggatg aatgttttgt  420
ttttgtccaa tttacggagt aatta                                           445
  
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<210> 5170
 <211> 445
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-012-Q1-E1-H3

<400> 5170

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 aacaccgaca ctggcgagct catcatgcac ctggagtggg ttaacctccc ccagggcatg 120
 tcgcggtgat ttgatttgat ttgcagaggg aggccagcta ttgtctgcct tttgtgatcg 180
 taatgttgct tcctctatat atgagctatg aaaataatta agcgatgcct atctcattct 240
 ttacataaca cccaccgtaa tgatttgtgg atctcaccag gatggtgcgt atataatatg 300
 agcaacgtcg tggtagatc cgcagatcat cacagtgggt gctacgtaag gcatgtgata 360
 gacttatgct gctgggggta atgcttgctt tcagttttgg ttctgcatat gttgtatggc 420
 tattttaata caaaaaggta ttttt 445

<210> 5171
 <211> 439
 <212> DNA
 <213> Triticum aestivum

<223> unsure at all n locations
 <223> Clone ID: LIB104-012-Q1-E1-H5

<400> 5171

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 tagctacagt gcaaaaacag aatatgaatg ggtttgcaac aatacttaga gtagtgattt 120
 gcattattat actaacggat cttaccgtgc tttctgttga gttttgtgtg gatgaagtga 180
 tcaaggatcg aggaggtctc gatatgagga gaaggaggag aggcaagagc tcaagcttgg 240
 ggatgcccaa ggcaccccaa gtaaatatc aaggagactc aagcgtctaa gcttggggat 300
 gccgcggaag gcatcccatc tttcgtcaag aagtatcgat atgttttctg cttcgtttcg 360
 ttcattgtgat atgtgtaaat cttggagcat cttttgtgct taattttcat ttttccttta 420
 tgcaacatga tggatatgag 439

<210> 5172

<211> 440
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: LIB104-012-Q1-E1-H7

 <400> 5172

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 attgacaagt tgggtcaaaag ataaacttgc tccatacaag attccgacga gattgcacgt 180
 atgggactct cttcctcgga atgccatggg aaagggttaac aagaaggagc ttaagaaatt 240
 attagaggtg tagccatatt tacattgatg tacctatfff tcaatcgac ctttctgcga 300
 ggcagacata tagtgggtgc agctaataat tttgttctgt tcgacaataa tgataattta 360
 gagcaactat agtaaagtgt caagtaaata atgcacacta tcctatgata tcttaaaagc 420
 gagaatgtga aataactaga 440

<210> 5173
 <211> 441
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: LIB104-013-Q1-E1-A1

 <400> 5173

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 ttttaccgtt gcacatgatg attttgatga atgtaatatg catgttcttg ctgctcctac 120
 ttgcaattat tatgagagag gaactacatc tccacctctc tatgtttcca acacgatgaa 180
 attgcaagaa actgcttatg ctatgtactg gccattactt gatgogcagc aattgttctt 240
 gtatgacatg ctgatgcata ggaagagagt tagacttcgt cattgcttga tataatgttg 300
 tttgtgctca ctactaaatg ccaaatacatt gtttaattaaa attggctttg atataccttg 360
 ggatccgggt ggatccatta cttgagcatt ttatgcctag cttaatggct ttaaagaagt 420
 gctgcccaagg gagacaaccc g 441

<210> 5174
 <211> 375
 <212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-013-Q1-E1-A10

<400> 5174

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attcacgggt cgacggcgggt cttcagcgag gtctcgaggc ataaactcct caagaacatc   60
aaaaaggtgg gccccgaac cggaaccggc ccaaaccaat tcgccaccgc caacggcggc   120
aacctcaaaa ttccgtcggc ccgccggtcg cctgtcatcg tcgccccgtg tcccgtgtcg   180
tcgatctaaa taagagagtc gtgtgtcgtg tcgtgtcatc cccatgtccg tccgatgaga   240
tctccgtggg tgggttagga gggtttagg tggactcttt tggccgctgg atctgtgtcc   300
ggcggccatg gttatcttcc tgtgtctgct gctatcttac tgtttgaatg agatgaactc   360
cgctatgaat tatcc                                                    375
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<210> 5175

<211> 434

<212> DNA

<213> Triticum aestivum

<223> unsure at all n locations

<223> Clone ID: LIB104-013-Q1-E1-A12

<400> 5175

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ccaaattgtt atggtgctgc tagaaggang gcgcgagaag gccggccggg ggccttttgc   120
ccatggccgg gcaagatgga agggatttcc ttcttaattc ttgcttgatt agattgatac   180
atctcctctc tttatataga gaggtttact tgactcccaa gcaaggctta cttgatccct   240
aagaaagcga cccttatctc taattaacct taagactaac gggctatacc gccagcccag   300
gccattaggc ccattacgta ctctaacaca gtcataagat tgtaactagt aagattttta   360
aaacatcaaa actactgttc tttgtagttg ttaaaaacac gacatccttc aagttcatta   420
acaatatatg acaa                                                    434
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<210> 5176

<211> 454

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-013-Q1-E1-A2

<400> 5176

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gacgagggca agggcccgat ctccctcatg ttcccaatct tcagcgcggc aaccatcgac 120
cagatcttca ccacctcaga tacactgtct ctccccatg ggcccgctca tgcattggtga 180
agacccccctg ctccgaggtg gtgccgtggt caagaggaga agcacagaat atggatggag 240
gatggggaat acatgcagaa ggcggaagct ccatgctcag ctgagctctc aactacactg 300
ctctaagact acttgggtgag aatgtcgatg atgagcaaga tatgtccgtg ccaaaaacaa 360
ggaaatggat acatgaccat ggtgggtgcaa tgatgataaa actggaagca agatgcttgg 420
atTTTTTgac aggtcaggtg taaaccctac cccc 454

<210> 5177

<211> 356

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-013-Q1-E1-A3

<400> 5177

taccggtcca gaattcccgg gtcgacgggg accaggagcc acaagcgggc gatgaccagg 60
agcagtcata ggaaactata cttacacgtt gacagttaca agaacctaca tacatgttgc 120
ttcaccacgc ttgatgttgc tcttgtgtat tgctgctgct gcccatcttt tttctcatcc 180
cacacatgca cgcaactggat gttatgcac ttatcgctt ggctatcgca atcctgaatt 240
ctgcagtaaa taacttaaaa aagattcatc acaagcggcc tgctcaacag gatcctagct 300
tacgtatgct tgcattcgac gtcatatctc ttctagattg tcacottaat tcaatt 356

<210> 5178

<211> 406

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-013-Q1-E1-A4

<400> 5178

taccggtcca gcattcccgg gtcgacggga ctgttcagtt tttgacagat tctgttttca 60
ttgtgttgat tgcttatctt gatgaatcta tggctactga aatagtttat gatccataga 120

taagttggaa tacaataggt ttaataccaa tacaataaaa taatgagttc attacagtac 180
 cttgaagtgg tcttttcttt tcttccgcta atggagctta cgagttttct gttgagtttt 240
 gtgttggtga gttttcaagt tttgggtaaa gattctatgg actatggaat gaggagtgga 300
 aaagagccta atcttgggga taccoaatgc accccaaggt aatattcaag gacaaccaag 360
 agcctaattct tggggatgcc ccggaaggca tcccctcctt cgtcct 406

<210> 5179
 <211> 418
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-013-Q1-E1-A5
 <400> 5179

tacgggtccag aattcccggg tcgacgggat gcagaaaagg acacatgcgg gctgagagga 60
 tttgaagtaa tttccaaaat ctcacccgtg ggtatttata tccctaccct gtcgggtgtga 120
 ccgagtggaa caactcagtg gcaccgagat tgcagaatcg caagcggttg ctccaactca 180
 gtgtgaccga agtgttcaaa tcggttgac cgagatgaaa acctagatca acttagtgaa 240
 ctcggtttga acgaaatgga tgtctcggtc agaccgaaat gcacaaagag gttttggaag 300
 ttttaagtcta tgaagaatca gggactccga gtgctcctca cacagagtgg ttcgaatctg 360
 acttgatcaa actttgtgat gtagcatgaa tagagtttga gacgagaaaa gcatagat 418

<210> 5180
 <211> 295
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-013-Q1-E1-A6
 <400> 5180

gtaccgggtcc agaattcccg ggtcgacggg ggggttcaac gcggtgccgt acgtggtggc 60
 gctcttcagc tgcattgctg ggatcttcta cgcgtgggtc aagaccaact ccagcccgtc 120
 gctcaccatc aacgccttcg gctgcgtcgt cgagggcttc tacatcctgc tctacgtggt 180
 gtacgcgccc aaggccgcca agcaacgcgc cctcgcttc ctccttctcc tccaagttgc 240
 cgcctttgcc ctcaatggct ccgttaacgt tctcctcgtg cccaaccca accgc 295

<210> 5181
 <211> 424
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: LIB104-013-Q1-E1-A7

 <400> 5181

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taccggtcca gaattcacgg gtcgacatat ctaagacaaa gaagatcgcc ctaaggacat   60
tgatcgacca ctctgtcgtg gaaagttttg gtgccggcgg caagacgtgc atcctcacga  120
gggtctaccc gaggaatgcc gtcggggaca atgcacacct gttcgtcgtc aacaatggcg  180
agtcggacat caagctcacc aacctgcgtg catgggagat gaagaccccc acgatgaaca  240
agcgtctggg gcagtagcaa cagcccggcc cggtagatcg aggattcaga gtagcctaga  300
ctagccatag ctagctagct tgttgattta gttgagatta attaggagag gtccaggttt  360
agtgatgagt tgttagaaag gaccggaaat gatccatttt gtttcagaac cttttccaaa  420
tggc                                                    424
  
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<210> 5182
 <211> 437
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: LIB104-013-Q1-E1-A8

 <400> 5182

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gccggcagta ccggtccaga attccccgggt cgacggggca ataagcacat aacacaagcg   60
aagaaaaagt gaagactttc tatcaacaac tattataatg atgcctttga tgtagaatat  120
cactgcagtt acatttgaac aaatgaaatc cctttttaac agatgagttt tcgtccgaaa  180
ccctgatact tccaaagaga ttgtctgttt tgtatccagt ttttgtcata accctttcaa  240
cttttttagca catgctatat gggttaaatg atgatccat gccaaactttc aaccttttca  300
gagttcattt gtattgcttt tcaattaaag ggtcattgag ctcaaataat gaactaatac  360
caaaaagaat gaactaatag caaaaagaat gaagtgaaag ccaaaaagaat gaactaatag  420
caaaaacaaa gaactaa                                                    437
  
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<210> 5183
 <211> 407
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-013-Q1-E1-B1

<400> 5183

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 gatgcacttg atgatgatct cgttatgcct attgcttggt gtgatgatta tgattgggaa 120
 gataatgata cttcttatga tcttgaaaat ctttttggca cttgcttgga atatgacaat 180
 tgctatacta ttgggtgctat ccatactact aatgatgaga gtgattatgc ttatgatatg 240
 aaaaggccca agcttgggga tgctatgttt gaagaatatg atatttttga gaatatattt 300
 gctgcaatta atgtttgtcc caagcttggg gatgctacgt ttaatgaaga tgatattttt 360
 agcccccccc cccaaagttt tgatatgcaa agttgttatg atgatag 407

<210> 5184
 <211> 402
 <212> DNA
 <213> Triticum aestivum

<223> unsure at all n locations
 <223> Clone ID: LIB104-013-Q1-E1-B10

<400> 5184

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 ttacacaatt atttagatac tcattgatct tcaattatat cttttggagt agtttgcgt 120
 ttgctctagt gcttcactta tatcttttta gagcacgacg gtgggttttat tttgtagaaa 180
 ttattgaact ctcatgcttc aattatatta ttttgagagt cctaaaaagc atggtaattt 240
 gaatgaaaac tatcatagga ggtgaattgg atgcatgat caatttgata cttgataatt 300
 gttttgagat atggaggtag tgatattaaa gtcatgctag ttgggtgatt atgaatttaa 360
 agaatgcttg tgtttaagtt agcaagtcnc gtagcatgca cg 402

<210> 5185
 <211> 381
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-013-Q1-E1-B12

<400> 5185

gggacaccct atagtgagtc gtattatttg aactcgggac ttcttttgtg ttcagtatgc 60
agcattctaa acgacgtcac caattttccaa catgtttctga catcatttgt tgtttttcag 120
tcattttacct aattgttttag agagctaaat gaccatgaaa ttgaaaatca ctagaaaatg 180
aactgtgaaa atgttgaaac ttggcatggg atcatcattt caccgcata gcatgtgcga 240
aagagtagag agggtcacgg caaaaactgg acgcacttcg tgtacaaact ggacaatctc 300
attcggagta tcagggtttc ggacgagaac tcattctatta cacgggcact ttaatgtttt 360
ttaaacttat ttgaactcgg g 381

<210> 5186

<211> 387

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-013-Q1-E1-B3

<400> 5186

ggtaccggtc cagaattccc gggtcgacgg ggagcacaag aaggacggcg agcacaagga 60
gggcaggaag gacaacatcg gcgacaagat cagcggcgac ggccacagcg acggcaacag 120
cgacggcgac cacaaggaga acagcgacca gaagaagaag aaggacaaga agcacagcga 180
gggccacaag gacgacgacg gccacggcaa caacaacagc gacagcgaca gcgactgagc 240
cagctccggc cagcaccgg cagcagcgtg cattctatgc aagatagatg aacgcttggg 300
agaagtgtgg catacatata tcttgcattg tttggaccgt gtggtaccaa atgttcgtaa 360
tgcgtagacat gtcgcatgga tcctgtg 387

<210> 5187

<211> 83

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-013-Q1-E1-B4

<400> 5187

taccggtcca gaattcccgg gtcgacgggg agcacaacac ggagtggcag caccacgatg 60

gcaagaatga tagcatgaac gac

83

<210> 5188
<211> 446
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-013-Q1-E1-B6

<400> 5188

gtaccggtcc agaattcccg ggtcgacggg cgttgccaac ttgattgagc tcttggtgat 60
catctcattg tcattggcct ctatcatcac caaagctctt acttcttctt gtttttgctt 120
ttccctcttc ctcttctttg gtgcctcatg tgcagcccta catcgagcct ttgtttctgg 180
tgtggcttgc atacaacttt ttattgcccc ttgatacca gctatgtgtt gcttcactct 240
agtcacccca cctgacatct cctttccaca aagaatgcac ttgaatcttt gcagatcatc 300
tggatcaatc agcacaacaa attcccaagc catgtcatct gattttctct taagtttggg 360
acttgcaacc tctgaagtac cagaatcagg catctacaaa aatcacaagg gcaatagcat 420
gtattatagt attagtatta gacggt 446

<210> 5189
<211> 150
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-013-Q1-E1-C1

<400> 5189

gtaccggtcc agaattcccg ggtcgacggg catcaaaaaa aaaaaaaaaa aaaaaaaaaa 60
aaaaaaaaaa gaaaaacaaa aagataaaaa aaaaaataa acaagaatga aaaagtcata 120
actcatcaaa aaagtcacct aaattcaatt 150

<210> 5190
<211> 409
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-013-Q1-E1-C10

<400> 5190

attcacgggt cgacggggaa gataagatta ggaaggttca ggagctgaac gcgaaagcga 60
aggctgcttt ggagaacggc tggctgctgt gcatgaatct ggacaagctg gtccaatccg 120
tcgtctgaaa attagcgcag catgtcggtc ctgaataaat tctgctgctt tcgtcattg 180
atgaacagat tggggttgtt tcttgcttgc ttggaagatc gagagtgaac aacatatcct 240
atgttgtaag ttgcaactgt atctcatgcc aactcaataa tgagtgggac cgaaaaaaat 300
catgatggag caattcaaaa ggtcaagtag gatgtcataa ttgtcatcga aggatgtttg 360
gacctcaaaa aaatcggtcg cttcaaaagt atcaaactta agttccctt 409

<210> 5191
<211> 415
<212> DNA
<213> Triticum aestivum
<223> Clone ID: LIB104-013-Q1-E1-C11
<400> 5191

gtagcgtcca gaattcacgg gtcgacgggt atgtgaacaa taaggctgtc caggctctac 60
atgttttgca tctgtagtcc tcgtagacgc gggcgacatc taacttgatc ttggattttg 120
cgtattgctt caatacagtt ccggtacaca aaaatacgtg atcaataaag ccctcctggc 180
tctacatgtt acatatgtat ggccaatctc ccgtatgaca cattagcaca ggcccacgtc 240
agcctgagac ccatatgtca gtgggagcga gaaataagat aatgataagc aaaaatgggt 300
gacgcaaagt ttccaacca caatccccag ccaaaatttg cgtgagcaag ccaccacact 360
atgggccaaa ttcggtgaaa atcaggatga acattcctgt atataaataa cgctg 415

<210> 5192
<211> 403
<212> DNA
<213> Triticum aestivum
<223> Clone ID: LIB104-013-Q1-E1-C12
<400> 5192

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gtcgggtaag tcgcaggtat ggccaccggg taatcggttc agatctcgcg ctcttgtttt 120
cgctgttctt cgtttggttg taattccagg cgagcgttct gtttgggttg tgctgctcct 180

tattacgttg atgtcgatcg aggcctagtt ccggtgggtt gtcctcctct gttccgttga 240
 tggttggtatt gtcttctgaa cctcgctgct ttggtttagg tcgcggttaa tctattttgc 300
 tttgacttct gatctgattg ggtcctggct aatccatcat gctctgattg cgatatgttt 360
 tagggtcgtg gcttatccat ttttatacta attgctgatt tga 403

<210> 5193
 <211> 449
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-013-Q1-E1-C3
 <400> 5193

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 tatgtgcaag ggcattgatat tcgtgaacgg cgaaggcatg ggtcgctact ggacgtcatt 120
 cataactcct ggcaaagtcg cttcccaggc agtgtaccat attccacgga catttttgaa 180
 atccaagaac aacctattgg ttgtatttga ggaggagctt ggcaagccgg aaggcatact 240
 catccagaca gtgaggagag atgacatctg cgtgttcacg tcggagcaca accctgcaca 300
 gataaagcca tgggacgagc atggaggcca gatcaagctc atagccgaag accacaacac 360
 tcggggattc ttgaactgcc ccccgaagaa gaccatccag gaggtagtct tttgcaacct 420
 tcggaaacct ggtgggggtca tgcggcaac 449

<210> 5194
 <211> 405
 <212> DNA
 <213> Triticum aestivum
 <223> unsure at all n locations
 <223> Clone ID: LIB104-013-Q1-E1-C5
 <400> 5194

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 gaggtcctct tccagccatc cttcattggg atggaagctg caggatatcca tgagaccacc 120
 tacaactcca tcatgaagtg cgacgtggat attaggaagg atctgtacgg caacattggt 180
 ctcaagtgtg gtaccactat gttcactgga atcgctgata cgatgagcaa ggagatcact 240
 gccttggtc ctagcagcat gaagattaaa gttgttgctc ctctgaaag gaagtgcagt 300

gtctggatcg gaggatccat cttggcatct ctcagcacct tccagcagat gtggattgcg 360
aaggctgaat acgacgagtc tggcccatcc atcgtgcaca ggaaa 405

<210> 5195
<211> 451
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-013-Q1-E1-C6

<400> 5195

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ctcactctat ggcctgaaat aacctccccg agcctggtag cagcggtttg ccgacttcca 120
caccaccatt ggtttcatct tcacatgttc gattcgtcgt tgtttgccct ctgccatgac 180
actgacatga gctacctttt cttctatctc ctccgacacc atgtttcacc gcatgatcag 240
ctctttccac taggcgctac attacatccc agatgttgag gtccgagaca cctccaatgg 300
cttcttcctg tagcatgcca agtatgtcag ccggtactt gatcgagggt gcatggccag 360
tttccagcca tcacatccct ggtagacacc cactccaagg tctctgccac caccggctca 420
gctgctgctg atgcaagctt ctactggact a 451

<210> 5196
<211> 395
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-013-Q1-E1-C9

<400> 5196

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aagatatgta tcaaggccag tgttcctgaa atcagtgccca ttgtcacttc taagggtgctt 120
tatcttggcg ccatagttgt tcattgctcg attggcgaag cgtctgaaga catcctacac 180
ttcagtcttg tagaggatta tgtgcactca agtatatcta gaataatcat caacaataac 240
aaagccatag aggcaagcag tagtagtaag agttgagtaa tgagtgggac cgaaaagatc 300
catgtggagc agttcgaagg gtcgagtggg tgtcatgatt gtcttcgagg gatgtttggc 360
cctcgtcatc ttccctgctt cacaggcacc gcata 395

<210> 5197
 <211> 436
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: LIB104-013-Q1-E1-D11

 <400> 5197

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 ggggcgttta ccgggggagg cgatgttcgt gctggcgag gcgagaggaa gatctccagc 120
 ctaccggcgt acctcgccac ggccgtggag ggctgccaca tcacgggcca catcgtgcgg 180
 cgcttcgcgg agatggagct ctgccgctg ctccgttggc tgctgggctt cagaggggtcc 240
 agggagcgcc tcctcaccga cgacctcttc atcgccaagc tcgcatgga gatgggcgtc 300
 agcatgatcg ccaagaccgc tgccgagtac gagaagagac gggagaactt cgtcaaagaa 360
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 aaggaaggg ccttgt 436

<210> 5198
 <211> 258
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: LIB104-013-Q1-E1-D2

 <400> 5198

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 ctgccaggt tgcgctgtga aactgacaa ggggctaata agacagaatg tcgtggccat 120
 gattatttct caccaccatt gttgcggtgg cagccacaat gcaagctgag accgctctga 180
 ctacggagga gagctcattg aagactgcga cccatcagg atacgtgttg acgccaccgt 240
 agcagctaca cgtgttgt 258

<210> 5199
 <211> 451
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: LIB104-013-Q1-E1-D3

<400> 5199

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ccggcaacaa gcaggagcag gtgtcaagca tcgtctcgca ggggcacgag gacggacagc 120
cggatgccgc cgccggcaac gcggacgcta aggccgagaa gccccacaag aaggcgtccg 180
gcaagcaciaa gctccgcagc gactagaagc agtgcgcggtg agcgcggtcac tgccacaccg 240
cgtacgtacg taactacgag ctgtcgcccc gccacacctt ccggcgacgc acgtaggcct 300
ccatccagca gcgtctccat caaattgatt aattgcgctt tgaattactc ttcttcttcc 360
tcgcggtact ctcttccttg attgtagaag gaacgagtga cgtactacca tacttcggct 420
agttacttaa agccttggtt aattttttcc t 451

<210> 5200

<211> 324

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-013-Q1-E1-D4

<400> 5200

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ctcttgcgac gtgggttttt gcaacagtcc ggaacgctgc acagtgagat gttcctttga 120
gttttgtgtg tcttgcgtga gttatgcatt gtgttatctc gaatagctgc cgtgctggca 180
tttgatcat aatcttaatc cgttcgtctg acacaaataa attcaatcac agaataaata 240
aatgcggacg atctatagga tcgaagctta cgtacgcgag catgctaggt cataactctt 300
ctacagtgtc acctaatttc aatt 324

<210> 5201

<211> 444

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-013-Q1-E1-D6

<400> 5201

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tccatcccgg aggcgcagct gaactaccg gcgatactgg tgccactctc caagaagccg 120

ttcaaggcaa agcggacggt gacaaacgta gggccggcga agtcgatgta cactgctcac 180
 ctggacgtgc ccaattggct caaggtgaag gtgcagccag aggcgctgga gttcacgtcg 240
 gcgatggaga agaagacatt cacggtgacc gtgagcagca ggggaggtga cgccgacgcc 300
 aacgccgggc agctggtcga ggggagccta cgctgggtgt ctgaagatca cgtgggtgcgg 360
 agcccgatca tcgccgacgc cagggttgtc ccgacatgat tctgtcaggc gctccctgga 420
 catgcttctc tcgcaagccg catc 444

<210> 5202
 <211> 425
 <212> DNA
 <213> Triticum aestivum
 <223> unsure at all n locations
 <223> Clone ID: LIB104-013-Q1-E1-D7
 <400> 5202

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 gacgatcggt gcgacggcca caacgaagtg catctctcaa ttccaggatc aacatgctgg 120
 acgaatcctc ctttcatgtt aagttgcaac agtgcaagca aacaccatgg aggcttctgt 180
 agttagggac ggtgaatctg catcaacagt gctggatgga aattgctcgc cgtccttcct 240
 ccataaacca cgtagggacc ttgtattagc ctccccatct atccgtcagg aagccctgac 300
 tttccctgct attgctgtca aaaatgctac cttgttagca cacgaactga acttaagtat 360
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 tcgcc 425

<210> 5203
 <211> 406
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-013-Q1-E1-E1
 <400> 5203

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gcaggagcaa gtgccctatc ggtggcagct gctgcacctg cttgcaggta caattgggtcc 180
 tcgcaaatca tcggatcttt cttatcggac gggatggtga tgatcatcac aggtcgtggc 240
 atcttcaggg tagttgtaag cgtagtgtga cgccgccatg aacttgacca acgctacgca 300
 gcgatcgatg tcgttgtagg gcaaagcgat cctggaaaca tcgtacacga ttctcttcgt 360
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<210> 5204

<211> 462

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-013-Q1-E1-E2

<400> 5204

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 tccttggcgg acaccttctt ggtctctggc ggagctgcc a ttgtcttctt acacttgccg 180
 gtggagctcg atggtgcgtc ctgcacggca gcgcagcact ccgaagaggt gcacttgccg 240
 gagtgggcat cagaactctt gccggacttg gtcttcttct tcccccggg agcttcaacg 300
 gcaggtgact tgcatctgt tcgggctgtc gtttcccggt agatcttgtc agcgcagata 360
 agagcatcct tcttgtcgcc agggacagag atgacgctta tcgggcttgg aatcttcagc 420
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<210> 5205

<211> 382

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-013-Q1-E1-E3

<400> 5205

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 ggacaccttc ttggtctctg gcggagctgc cattgtcttc ttacacttgc cggaggagct 180
 cgatggtgag tcctcgacgg cagcgcagca ctccgaatag gtgcacttgc cggagtgggc 240

atcagaactc ttgccggact tgggtcttctt cttccccccg ggagcttcaa cggcaggtga 300
 cttgcgatct gttgcggctg tcgtttcccg gtagatcttg tcagcgcaga tcagagcatc 360
 cttcctgtcg cctctgacag ag 382

<210> 5206
 <211> 457
 <212> DNA
 <213> Triticum aestivum
 <223> unsure at all n locations
 <223> Clone ID: LIB104-013-Q1-E1-E8
 <400> 5206

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 cttggctgac aataagcttg aagcgaacga caacaagggg tgggaattca tcacttcttt 120
 ggccaactgc agccaactgc agaaattgat actcagcaac aattcttttg gaggacaact 180
 accaggttca attgtaaacc tctcgacaac tctccaacag ttatacttag atgacactag 240
 gatctctggg agtatacccg cagatattgg caatctgggt ggtctcaacg tgggtgtaat 300
 agcaaatact tccatatcag gagtgattcc ggatagcatt ggtaagctag agaacttgat 360
 tgagctgggc ttgtacaata atacgttgtc tggcctcgta ccgtcatctc tgggaaaatc 420
 ttcacaattg aataagtttt atgcatacaa caacaac 457

<210> 5207
 <211> 453
 <212> DNA
 <213> Triticum aestivum
 <223> unsure at all n locations
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 <400> 5207

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 catctagctt gtgggagaga gacgcacca tgacagcttc taaaaaggtg ggagaagcga 180
 ggattctaga ggagggatct aatgaagaag agagatagga gcagagacca ctgcacctta 240
 tagcactggt gacggcgata gcttgcaaca tcaatggcca caactttgag agttgtgggg 300

gagcaaccga gaggggttcg atgttcgatt tggacagtcg cagtcggatc agagagcggc 360
 ggaaggaagg ggagcgagcg agcagaagca aaagaggcng anggggagat ggggttcgatg 420
 gcgccgggta aggctggcct ccttcttcgc ggg 453

<210> 5208
 <211> 402
 <212> DNA
 <213> Triticum aestivum
 <223> unsure at all n locations
 <223> Clone ID: LIB104-013-Q1-E1-F10
 <400> 5208

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 atagaaacta ttgttctctc atgcttcact tatattattt tgagagtctt aaacagcatg 180
 gtaatttact taatcctaata atgctaggta ttcaagacta gtaaaaaactt tcttatgagt 240
 gtgttgaata ctaagagaag tttgatgctt gatgattgtt ttgagatctg gaggtagtga 300
 tattaaagtt gtgctagtgt agtagttgtg aatttgagaa atacttgtgt tgaagtttgc 360
 aagtcncgta gcatgcacgt atggtaaag ttatgtaaca aa 402

<210> 5209
 <211> 397
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-013-Q1-E1-F11
 <400> 5209

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 ggcgagcgat caaatatggt tagacataca attgtgctaa aaaatacaat tatacatgcc 120
 aaatcgtttc tggtcgtaag tacatccac atactcagtc cgggctaaac gtttctttta 180
 gtatgtacat tccacacagt cagtccaagg aatacgtttt cgtagtatg tacatccctt 240
 acagttaatc caagaagtac gtttctgttc gtatatacat cccacacagt cactccaagg 300
 aaaacgttcg ttcgcaagta catcacacac aattttcccc attaaattgt ttgtgatagc 360
 attgccattg cacatgatat taacaatttt atccttt 397

<210> 5210
 <211> 387
 <212> DNA
 <213> Triticum aestivum

 <223> unsure at all n locations
 <223> Clone ID: LIB104-013-Q1-E1-F2

 <400> 5210

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 gatcccacga ggaaattgaa cccgacgcac taccggcatc caacgtttta caccaagggtg 180
 tttaacgaat gccactccta tgaccaagat gggaattcct ttgagctctc cctggtaaca 240
 tccaagtgca ttggacccta tcttacaagc acgaagatcc ctaactagat attttcgcta 300
 taggagaacg tcacgtgcac ataacacaaa tgccttcaca cattcctgta caatgtccac 360
 tacaagtcca ctggaatcct accttat 387

<210> 5211
 <211> 383
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: LIB104-013-Q1-E1-F4

 <400> 5211

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 tgttgaagtt tgcaaatcct gtagcatgca catatggtaa acgttgtgtg acaaatttga 180
 cgcgatgaggt gtttctttga ttgtcctcct tatgagtggc ggtcggggac aagctatggg 240
 cttttcctac caatcgatcc ccctaggagc atgcgcgtag tgcttggttt ttgatgactt 300
 gtagactttt gcaataagta agttagttcc ttaggactaa tgttgagtcc atggattata 360
 cgcacttttg ccttccatca ttg 383

<210> 5212
 <211> 416
 <212> DNA

<223> unsure at all n locations
<223> Clone ID: LIB104-013-Q1-E1-F7

<400> 5214

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aacatgataa acatcacatg caatcaaata gtgacatgat atggccaata tcattttgct 120
cctttgatct ccatcttcgg ggcgctatga tcatcctcgt caccggcatg acaccatgat 180
gtccatcatc gtgtcttcat gaagttgtca caccaatgaa tacctctacg tacatggcta 240
acgtgttttag caataaagta tagtaattta catggcggtta ttogatgaca cgcaggtcat 300
acacgaatta acacaattcc tatggctcct gcctgttgtc atactcatcg acatgc 356

<210> 5215
<211> 365
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-013-Q1-E1-F8

<400> 5215

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agatccagga cgagctcgag aagggttaatg aagaagcaag tgataagggtt ttggagggtt 120
agcagaagta cagtgagatt cgcagacctg tctatcttcg gaggtgtgac atcatcaaaa 180
caattccaga cttttggctg acagcgtttc taagtcatcc tcttctcagt gagcttttga 240
ctgaagagga tcaaaagatg ttcaagtact tggaatctgt tgatgttgat gattctaaag 300
atgtcaagtc aggctactcc atcactctta acttctctga gaatccgtac tttgaagaca 360
gaaag 365

<210> 5216
<211> 331
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-013-Q1-E1-G4

<400> 5216

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tatggggaga ttagtacgat aatcatgact ttgatgcatg gataagctag ctacatgcgt 120

gcgtgagttg gttagtctat gcatggcgtg agttagctgg tgaagttggt agctacgtgc 180
atgcatcgca tggatatggg tgcattgtgt tgagatattc taggaggtga gtgtccgtgt 240
gtgtacatgg atagagtttg ttagactcca agaaaaacga ggtacgtagt aggaggtggt 300
gatgggaaag cggccgctct atggggatcc a 331

<210> 5217
<211> 445
<212> DNA
<213> Triticum aestivum
<223> Clone ID: LIB104-013-Q1-E1-G5
<400> 5217

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ttccttatgg atcccttgta ttccgaagcc cgacctttac ttgatggcta tgttgacgct 180
tttaagcatg atcgcggtat ctagtacatc aaggagaaca ttagaagtgg agtgctaagt 240
gtctctcggt cgatcatcca gatttttttc cttggcctcg ctaaggtgaa atctgagaaa 300
gtgttgcttt cctttgcggc tgcattctcc atcgttattc atcattgtag tatctatttg 360
tatcaacatt cttggcttag atgttggtgaa accttgatga atatggagtt cctcaagttc 420
ttgagagcac acgcatgcac taagt 445

<210> 5218
<211> 400
<212> DNA
<213> Triticum aestivum
<223> unsure at all n locations
<223> Clone ID: LIB104-013-Q1-E1-G6
<400> 5218

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ttatttttgg aacaaacgca atccaggaga cttggagtgg atgtcaggtg aagctcgcgg 120
tggttgtcaa ggtgatgggt cgacgggggt cgaggggtca ggtgacccag gtgagagtca 180
agttccttga tgaccagaac cgtctcatca tgangaacgt caagggggccc gtccgtgagg 240

gcgacatcct caccctgctc gagtccgagc gggaagccag gaggctgcgc taagaaattt 300
 cttcctttat acctgtctgt ctttgaaga agaatgatgt actgttgccct tcttactcta 360
 acgctttcgt tctttgcta gctatgtgga agtgtaatga 400

<210> 5219
 <211> 411
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-013-Q1-E1-G7
 <400> 5219

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 agtggttgat ggctacggag caaaggttcc aagcctggcc tcgcgtcacc tgcccgccgg 120
 tcagcatgaa cctcatcagc cgccagaact tcattgtcaa agacctcaac ccctgaggac 180
 caagactctt gaagtttgcg gtcggttgga acctttacac tgatggcgat gcctgttgct 240
 aaatctacct atatgtgctg gctgtactct cgaggctatt ttgtctgtct caataattaa 300
 cacaacacta ttgtgtaagg cgccgtggct atatttcttc tgaacaacac aatacaacct 360
 gaagcacatt tgctttggac tttttgtcat cttttgtttg cataaacata t 411

<210> 5220
 <211> 383
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-013-Q1-E1-G8
 <400> 5220

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 ggcattggag caaatgtagg tgccaatgcc ggtcttggtg tcggtgcaca taaaggtatt 180
 ggtgctgggtg ctggtcttgg agcaaatgta cgtattggag caaatgtagg tgccaatgat 240
 ggtcttggtg gcggtgcaaa cggtgggtgct ggtgttggtg cgaatggagg cgctaacggt 300
 ggatttggca ttggagcaaa tgtaggtgcc aatgccggtc ttggtgtcgg tgcacataaa 360
 ggtattgggtg ttggtgggtgt ttt 383

<210> 5221
 <211> 435
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: LIB104-013-Q1-E1-H1

 <400> 5221

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 cacaagaaga aggacgggga gcacaagaag gacggcgagc acaaggaggg catgatggag 120
 aagatcaagg agaagctcca catgggtggc ggcagcgacg agcacaagaa ggacgaggag 180
 cacaagaagg cggaggagca caagaagaag gacgggggagc acaagaagga cggcgagcac 240
 aaggagggca tgatggagaa gatcaaggac aagatcagcg gcgacggcca cggcgacggc 300
 aagaaggacg gcgaccacaa ggagaagaag gacaagaaga agatgaagga caagaagcac 360
 ggcgagggcc acaaggacga cgactgccac ggcagcagca gcagccacag cgacagccac 420
 tgagccagct ccggc 435

<210> 5222
 <211> 429
 <212> DNA
 <213> Triticum aestivum

 <223> unsure at all n locations
 <223> Clone ID: LIB104-013-Q1-E1-H11

 <400> 5222

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 aggggggcttc tccgcccctc cggcaccgcc gcctcatgag atgcacctt cacaccagat 180
 gccacctgct catcatggaa atgagatgca tccttcacac cagatgccac ctgctcatca 240
 tggaaatgag atgcacctc cacaccagat gccacctgct catcatggaa atcagcagag 300
 accggcaagt ggtgcccctg gaactggcca accacctccg tattaccacc attaagtgtg 360
 tgtgtacctt cgccgccatt tctgattagt ttatggagtt ttgccactcc aacantacgg 420
 ctaccccat 429

<210> 5223
 <211> 444
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: LIB104-013-Q1-E1-H3

 <400> 5223

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 gcatgtggcg gcgaggaact ggggacacca taccgggaca catccggcga gtggtgtcgg 120
 caccaggacg atgattccga agatcttgag ccctggcagt tggacggtga gccggtatcc 180
 gacgcggaaa ccaccaatga ggagtaatgc agcaacttgg ccctatgctg ccgtgtgcc 240
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 gtattaccgg ataagctata tttcttgcc gttatcttcc ctcatgtgcc cgttccgtgt 360
 gcatatggca tcctgtttgt tgttacattg tgctatatag gctgtagtat tcagattctg 420
 gatgttattt atggaaacat ttgc 444

<210> 5224
 <211> 398
 <212> DNA
 <213> Triticum aestivum

 <223> unsure at all n locations
 <223> Clone ID: LIB104-013-Q1-E1-H5

 <400> 5224

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 ctgtcaattc tgttgagtcg gcgattcctc attatttgag gtggtcagaa cageccatca 180
 tatggagcaa agaggatcac cctccacggg tcgataatgc gggtcagtta gccttggtgg 240
 tagcacccca gggttggtgga tataaatcca ctaagggtgct catggacggc ggtagcagca 300
 tcaacatcct ctactatcaa acttttcagc gtatgggggt aactgataaa aatctgagga 360
 catccaacac agttttcaat ggagtggtn ctggtaag 398

<210> 5225
 <211> 443
 <212> DNA

<213> *Triticum aestivum*

<223> unsure at all n locations

<223> Clone ID: LIB104-013-Q1-E1-H6

<400> 5225

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caacatggca atttactttt aggcataata aaaacttcca tataagtgca ttgaatacta 180
tgagaagttt ggtacttgat aattgttttg agatatggag atggtgatat tagagtcatg 240
ctagttgagt agttgtgaat ttgagaaata cttgtgttga agtttgtgat tcccgtagca 300
tgcacgtatg gtgaaccatt atgtgatgaa gtcagagcat gatttattta tttattgcct 360
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gagcatgcgc atagtacttt ttt 443
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<210> 5226

<211> 376

<212> DNA

<213> *Triticum aestivum*

<223> Clone ID: LIB104-013-Q1-E1-H7

<400> 5226

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atggttttat attgagtgac gcggtacaaa atcatcatgc tatttttata taacttactt 180
tacttttagta agatctacgc accatgtttc actttggccg aaatcgatgt caacagatgc 240
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gtatcttata tttacgtgcc tcagacatat ggcttggcgc tggaagtgta tgcattgcat 360
atcaaaatag cgtctt 376
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<210> 5227

<211> 294

<212> DNA

<213> *Triticum aestivum*

<223> Clone ID: LIB104-014-Q1-E1-A1

<400> 5227

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tttttttttc ttttctttta gttggcggtg gctgaaggac gacagagttt cgtccgcca 120
cctaaattgc ttagcgtaca acgtgagggg tacttttatg tttcacggt tagatcccat 180
tgagtaggct tatcttgacc ctccaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 240
aaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaacaaa aaaaaaaaag caaa 294

<210> 5228

<211> 271

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-014-Q1-E1-A11

<400> 5228

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gcacccaatg caaggtctac aacggcaagt atggtgatca cattgtggcc aatagagttc 120
tcaatagtgt tggtagcgtc gaagaattgg taacacttga tgatcgcgtc aaccgagacc 180
tagataggat ttgtcaagtc atgcatcaca agcttgctga gttcaatgac tcatgcaaag 240
atccatgcat cgtcaatgca actgatctgc t 271

<210> 5229

<211> 395

<212> DNA

<213> Triticum aestivum

<223> unsure at all n locations

<223> Clone ID: LIB104-014-Q1-E1-B12

<400> 5229

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cgtgggcata gtatgggctg tctgcgtcgt atgcatcagc cgaagcttag tagacgttag 180
ggactgagcg acgcgcgccg ggttgactg gtaagcacct tcctttttga aggaggttagc 240
taggtctgct caccggccgc gtacgcaacg tgtaggtgtt cctggggcga tggcccatga 300

cccttggggg cataggttta gtccggcgtg ctgacctctc tattaagcct aggtctgggt 360
gtggcgctant gtttgggcca ggccgggcat gacct 395

<210> 5230
<211> 447
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-014-Q1-E1-B6

<400> 5230

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ccatgtactc acatagagca aggttacata tgatgggtccc cttccccctc ctcgacgcat 180
actatatgct cctaccataa tacaacccaa aaagaatctt catogatggg gaaattaatt 240
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cagatggaag tgtcacacgt gaatgtccta gctaggataa ccaccgcctg catgcaagtg 360
gcgcaaagag gtgttgtgtg atgtttgaat agccattttc acaattttga tgtggcacgt 420
gcctcggaaa ccgaaaagtc ccgacac 447

<210> 5231
<211> 428
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-014-Q1-E1-B8

<400> 5231

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ttccaagtag aacctttggg aagacttggg tgaagtctat gcgatcttgc tgtaaaaagc 120
agaaagtttt gcgctcacga gattagctac catattttac tggagagtga ttttaggttg 180
atccttttttg catatgattt atagacaaat taccaggtc caacaatttg tttcagaatt 240
tttggagtta cagaaatatt ctaatgatac agattactac agactgttca gtttttgaca 300
gattctgttt tctatgtgtt gtttgcttat tttgatgaat ctatgagtaa tatcagaggg 360
tatgaaacat agattagttg gaatacagta gatatgacac caatattaat tttaaatgag 420

ttcatgac

428

<210> 5232

<211> 437

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-014-Q1-E1-C10

<400> 5232

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tcgcaatatt cagattgctt ttatcatatt cttgcttggt cttcgattgc ttgcaggaat 120

agaccttcgt ggtcagggtg attgtgctcc ggcattggta ataacctctc ggagttgggt 180

tagcgattgc taaggcgcaa cgtcgtgcac gtttgtagtc ggatcgtcaa agtcgtctcc 240

accaaatacga tagttatcat ctcatcgaaa gatcgggaca cccccgcctc tatcaagtgg 300

tatcagtttt caggttgctc ggtgagaatt tccagttttc ctagattaga tttattttct 360

tacctattgt ccatgaaaaa gccacataaa agagtttagat ctattcatcc ttgggtccaag 420

ccagtctgag cctgtgc 437

<210> 5233

<211> 384

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-014-Q1-E1-C11

<400> 5233

ggtcgacggg ggtagaaatg attgataagg agccaaacag gagcttcgta gttgagaagg 60

gtcgtggcac tcctttaaaag gatataccaa gtgtggcaca gaggttaacg aggaagaaac 120

ctgctgatcg taaatttctt cacaatgttc tttttgggag gaaaggcaag actgtcgatt 180

ttaaaggcca tatacttcag ttctctggat ttgtgtggca tgagagcgat gaaaagcaga 240

gagccaaggc aaaggagaag cttgacaagt gtatgaaaga catgctggtg gatctctggt 300

ggcttcgtgc tattccggtt cccaaaacaa acatcagaaa ggaagatata gtggcaaagc 360

tgttggactt cattgctgaa cctc 384

<210> 5234

<211> 417
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-014-Q1-E1-C5
 <400> 5234

gtaccgatca agaattcgcg ggtcgacggg ggatgatgat gataaggcct gaaaagccat 60
 tctggatatgg tagtgatgat tgtattgtct acatttttta tataaccatta cttgtgcaag 120
 atactatcat gtgaccaata aacattgggt tagttgacgt gcttatgtta tggatacgtg 180
 tgtaaaactca agtttgatgt tataaaagtgg catttggtta tgcatacaaaa gacaaaaaatt 240
 taaaacgagt gtaaaaattg aacataaacac aatcagaaga aaataaaagc gacaaaaaaa 300
 tttgaaaagt ttgaaataaa acggggccgc ccaaagggtt caagccttag ttacccttaa 360
 atgcaattta aaacctctcc aaaaggggccc ccaaatttca ttccaggggc cttctttt 417

<210> 5235
 <211> 401
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-014-Q1-E1-C6
 <400> 5235

attcgccgggt cgacggggga ccgcaacgcc gcgaggacgg cggagcaggc agagcacatc 60
 aggagaaccg ggaggatgcc gccctcgctg ggctgctgga actgggtgctc gtagtcgtag 120
 acctggaaaa accagcatgc gttgctcctg tcaactaggg aatggaatgg atctggcacc 180
 gtagaatctt ctttcttctc ttttgattgg ttcagtagat atgtggcacg agaacagacc 240
 gcctgtaagt tgtaactatg tgtatgtaag ttgcgagctt tcttgcttg tctcatgttt 300
 cttgcattct tcagtgatgc tgagatttct gttcagatcc gtatgtacat tacagacagt 360
 gatttgcttc caaaaaataa taaatgatgt atgttttcaa a 401

<210> 5236
 <211> 419
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-014-Q1-E1-C7

<400> 5236

gtaccgatct agaattcgcg ggtcgacggg gaatcccaaa gaaagatttt tcttttctga 60
attataatta ttcagtcaat tcaaataagg cgtatcttgt tcaagccaat aaatatagct 120
ggggttatag ttaaagcagc cagtagaaaa ccaaaataac tagttaaagt aagcatgaaa 180
gagttaaatt ccatttattt tttttttact acactacata tgttggtaaa gcattttacct 240
aagttatgga aaattcataa ttcattcagtt attttagata atactaaaaa acaagataga 300
gtaagataca gaagtgtaaa agaaagtgga ttcattcagat gatacatgag tccctaattc 360
cgaatcaaga gatttggtgt ggaatttgtc aattgagtaa agtaataata ttaagaact 419

<210> 5237

<211> 407

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-014-Q1-E1-C8

<400> 5237

taccgatcta gaattcgcg gtcgacggg actctcagaa gtttgcaaga gcccataaat 60
catcgacttg gaacatgctt gtctgatgcc attccaactc cggcattttc aaagtccaaa 120
ctgtgactgt gaaaccagat ttcttcatgc ttccaaaaaa gccattatcg atgtcaacaa 180
agttaacaat acctttgcat acaccaacag ttctatatgc ctccagggtat acacgaccat 240
aagagagatc atcgagctca gtccaaattt ctatccctgg aagctggatg aaacggagct 300
ctagattttc accagcagaa agcacgttgc aggacaataa gccgcggtgg taatccaccc 360
agtatattgt accatctgga taggagaata cctgatctgt ctcccat 407

<210> 5238

<211> 399

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-014-Q1-E1-C9

<400> 5238

attcgcggt cgacgggaag gtggggaagc tgatgctggc gctgtccgat ctgctctggg 60
aggacatgaa gtccgggccg gacagggctc cgttccata caagtgatcc aggggagggg 120

aacgctagag agatggcgtg tgcattgcga agcacgggca cgttcgtgcg tgtacaagat 180
 agtgtgtgag ccgagccgca atttgttgcc cgtactgttt gtcacttgac ttgtcaagcc 240
 ctgtataact gtggtatgtg tgtgccggat ggatgactca ccatataaat aatactacga 300
 tcttgggtca aaaaagaaaa aacaataaga aaaattttga agaaaaataa caatacaact 360
 gttatcaaaa agcggccgct ctaaaggatc caagcttac 399

<210> 5239
 <211> 372
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-014-Q1-E1-D10
 <400> 5239

attcgcgggt cgacgaggcc accaatgacg acaactccgt cgtcgccctc caccgagaca 60
 ccatggagag gctccagctc ttccgcggcg acaccgtcct tctcaagggt aaaaagagga 120
 aggacaccat ctgcattgtt cttgctgatg acacatgtga ggagcccaaa gtcacaatga 180
 aaaaaactgt cacgaaaaac ttgagagtgt gacatgggtga tatggtgtct gtgtaacaaa 240
 gccccatat gtaatatagg aaacgcgtgt acatacatcc catagaggag acactttaaa 300
 ggggatcacg ggacatttgt tacacccttt ctaaacata cattccttta acccaaagcc 360
 ccttttgaaa ag 372

<210> 5240
 <211> 96
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-014-Q1-E1-D12
 <400> 5240

tacaccctat agtgagtcgt attacatggc ctgccaccac gacaccctgg ataggctcca 60
 gatcttacgc ggtaaaccg tcaactctca cgttac 96

<210> 5241
 <211> 342
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-014-Q1-E1-D3

<400> 5241

gggtcgaccg ggaccgcaat gcacgacagc catctcttcc gtgcggttca aacctcaaat 60
tccaaccccc ttctcccca aattaaggag gaccacccc aaccggaccc ccaaaacttc 120
aaacccttcg tctcaacctc ggacaaaaaa tggggccaac ttcaacaaac ctgttcagcc 180
gcctctttgc caaaaaggaa atgaggattc ccatggttgg tcttgatgcc gctggtaaaa 240
acaccatcct ctacaagctc aagctcggag agatcgtcac caccatccca accatcggat 300
ttaacgtcga aactgttgaa tacaagaaca tcagcttcac tg 342

<210> 5242

<211> 409

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-014-Q1-E1-D5

<400> 5242

aattcgcggg togacgggag gcaattaatg taatatcttg tgagggaatg gagaggatgg 60
agaggccaga gacctacaag cagtggcagg tgcggaatca gagagctggg ttcaagcagc 120
tcccgtcga ccaggaaatc atgaagcgtg cacgggagaa agtgaagtgc taccacaaga 180
atttcatcat cgacgaggac aacgggtggt tactacaagg atggaagggg cgtatcctgt 240
acgcgctctc aacatggaag gcgaaccccc aattctagct tctgtaaagtg gtgacctgtt 300
catatctttg gactctagag ctgattggtc ctggccaaca acccattagt agatgatgaa 360
cctgattact ctctgtagc atctgcctgt tgtatgtgct gcccatgca 409

<210> 5243

<211> 423

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-014-Q1-E1-D6

<400> 5243

attcgcgggg cgacggggag agacaaggct gcatccactg tcgtttactt ggcttatcaa 60
actacagagt tgagagaaca tatgaaagag gcgcgtggcc cagcgggaacc ccacaatgta 120

ctccccattg gcttcggctt ccgccaagg cgccatgtga agcgaggccc catccccggc 180
tctgttcttg tcaggcacta tcttcgtaag aggaggatgc ttgcttcttc gatatcaagt 240
cactgtgaag ggtcaagttc tgaatcgtaa attaaggcaa aagaatggat ggtggatctt 300
gttgattcat gtttgaagc tggtaacggc catcaagggt atccacttca atatgtttgt 360
actccaatgg tacacaaagg tgctcctggt gatccattct cgcgaggtaa tcttggtaca 420
ttc 423

<210> 5244
<211> 448
<212> DNA
<213> Triticum aestivum
<223> Clone ID: LIB104-014-Q1-E1-D8
<400> 5244

taccgatcaa gaattcgcg gtcgacgggc attgcaatac cgtttacgct cttttttatc 60
gcttgttacc ttgctgtttt tatattttca gattacaaaa acctatatct accatccata 120
ttgcacttgt atcaccatct ctgcgccgaa ctagtgcacc tatacaattt accattgtat 180
tggtgtgtgt ggggacacaa gagactcttt gctatttgggt tgcagggttg tttgaaagag 240
accatcttta tctacgcct cccacagatt gataaacctt aggtcatcca cttgagggaa 300
atttgcacc gtctacaaa cctctacact tggaagccca acaacgtota caagaagaag 360
tttacgtagt agacatcaca ccaccggatc gttgaagctc tgccgagggt gcaatgaaac 420
gttgtcgccg atggacttcg cctggggg 448

<210> 5245
<211> 337
<212> DNA
<213> Triticum aestivum
<223> Clone ID: LIB104-014-Q1-E1-E10
<400> 5245

tatagtgagt cgtattagcg atgctggtgt gaccttctac tcgcggggaa gaagatcaga 60
tgctccaga gatggctcca tgggtacggc tccgctatga tggactgttc catcattgga 120
gcagctcgat tgatgtgtat gacggcgagg atgaatcatg acacgacaga taacattaat 180

ctgaagtggg agtctaatag catgtgaata gatgatgtac aatacatcac caaaaagtgc 240
tagatgtgca atgcatcaac cacgccatgg ccgctctgac tgatgcagta aatactgttg 300
actcagaact taattgaaga aactgaactt tacagtc 337

<210> 5246
<211> 438
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-014-Q1-E1-E11

<400> 5246

taccgatcca gaattcgcgg gtcgacgggc agatataaat cccaagtgc tcaaagaata 60
gagctatgct ccccggaac ggccagaa attagtcttg ataaccaca agttagggg 120
atcacaacag ctttcgagg tagagtattc aaccgaatt tattgatttg acacaagggg 180
agccaaagaa tattctcaag tattagcaga tgagttgtca attcaaccac acctggaaac 240
ttagtatctg caataaagtg ttagtagca aagtaatttg atagtggcgg tagcggcaac 300
aaaactaat acagcaaaaa taatgttttt ggtattttgt agtgattata gcagtagcag 360
cgggaaagta aacaagcgag aaccagtata tggaaaactc gtaaggcacg gatcagtgat 420
ggataaatat gccggatg 438

<210> 5247
<211> 428
<212> DNA
<213> Triticum aestivum

<223> unsure at all n locations
<223> Clone ID: LIB104-014-Q1-E1-E12

<400> 5247

attcgcgggt cgacgggaac atctactccc actgaaagcg catcgccgga aattctgaaa 60
taaattccagg cataatgcga gcgccaggat ttgaatcctg gtgggttggg gataccactg 120
tccacctaac caactcaacc acaggttgat tcgccaaaac tttttctttt gcgggttata 180
gcttcatagc ttaggttccg tatattggat tcggtgtcgc acgtggcgta cgtatggtag 240
ggacgtattt aaccaggatc taatcgacct ttactttccc tataaaaaat ggcctttact 300
gtaagggaag gagaacatac accatgcac aggcatgaac attgcaaagc aaaacgttca 360

agtgccatgc ggcgagaagc tttgttctan ggcattgacat atcacgccta tttctctcttc 420
tccgcatg 428

<210> 5248
<211> 195
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-014-Q1-E1-E2

<400> 5248

aagcgaccga gttagaagtt gtcaatatgc attgtcgtat cgcgacctga atgaaataga 60
cgaaataatg ctcatgttcg aaagaatgtg tgagagtaga ctttacgcaa aacggccgct 120
ctaaaagatt taagcatagg tatgcgtgct atcgagatca tagctcttct atactgtcac 180
ctagattgag ttcac 195

<210> 5249
<211> 424
<212> DNA
<213> Triticum aestivum

<223> unsure at all n locations
<223> Clone ID: LIB104-014-Q1-E1-E4

<400> 5249

gggtcgacgg ggataactaat tcatgaagag tggtatccta tggaccattt gtttcatctt 60
gcttgcaaag ctgaacagga aataaaacga cgtgttgaggc acgaggagaa caagcgacg 120
gtgcacattc caagagttga tatgattgta aatcatcaaa gcgatactat gacaaccaca 180
tccgttggtg tcaggactac atcacctcca ccatgtgaca catcgcccc gagagtggct 240
acatcatctg agttgatcat aagaggtaat gacaaaggta ctgatcttcc atctctacat 300
gagaatgatg aatgccttgt caatttgaat gcaccatctg atgagctacc cactactttg 360
atcacaccac ctattttaga ggactacgtt gataatttga ctttgccatg tgatcanaca 420
actg 424

<210> 5250
<211> 416
<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-014-Q1-E1-E5

<400> 5250

taccgatcaa caattcccgg gtcgacggga gctagcagtg gcgctagggt ggtgggtggcg 60
gagaggtgtc accgtcgggg ggatctcggg tctcctggag tgaacaacga acaaatagtc 120
gtgttctgga ctgaattagg acttccaagg ctgttttttc cctgcagaac aaggaacaga 180
agttaacatc tgacgatttt atattggctt tgccaagtga acaatcaatc aggcgacaga 240
ctctacaaat attccgtggg ttcacagggc aaagttcaga aatttcagag aaacgacttc 300
agattcagac tcagagttga atgtaggctg gagattcagg atcatagcca gatagcctcc 360
acagcaatca atcccggcat cgcaagcttc ggcaaagata gtatggcatt tcagac 416

<210> 5251

<211> 406

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-014-Q1-E1-E7

<400> 5251

aattcgcggg tcgacgggag tgtccgacgt acaaccggac acattgatgg gtcttctaga 60
gcaagcggct atctcagagg cacatcgta cttaatgggt acggtgggtg agaggatttc 120
atccgcaaaa agcggggtga atgaagcttt tacgagcctg ctaagaggct ttgaggtacg 180
caaagtaata tatatatata tatatttgac tgtaccgcat acgcaagggt tgctctgtat 240
agatagtatc ccctgagact ctggttgccg tccaaacatg gcgaacaaag gatcatagtc 300
tcacgtaatg ataccgttgt tttcgtgcgc aggcagctgc aaatccggcg actgaccgaa 360
ctgccgaatt tgctgaattg aggcggcaac ttgacatggc ggacgc 406

<210> 5252

<211> 302

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-014-Q1-E1-E8

<400> 5252

gacgggtcta gtgattcact tataatctttt agagcacggt ggtgtcttaa ttttgaagaa 60
 atttctagtc tctcatgctt cacttatatc attttgagag tcgttttagac cagcatggtc 120
 tgtgctatga tcataaagtt ggtcctggaa tgacgagcat ccgagttggg tctgggaaaa 180
 acttgagtt gaagtgtgtt ggcacctagg atcagtttga tctttcgaca attgtcgtga 240
 gtaagagaag tgctgccatg aatgtcctgc caattgggtg cacagcctga atggcaaagg 300
 gg 302

<210> 5253
 <211> 419
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-014-Q1-E1-E9

<400> 5253

attcgcggt cgacggggca tgtcagacgt ttatttcaac tagataatac accgcacgtt 60
 gttgcgggaa ttggttgcta tatacgtaga gatgatactt ttggttcaaa ttattttagt 120
 gggcattttt tgtatgaaac attagtattt agactaacia tatgtgaatt gaaactaaca 180
 tatagtatta tattcgctta ttctgtagta tgcattggtgc attttaatgt gggctctttc 240
 tcatgaatgc atagtggcac gatgtggcat atttgcattg taagagaatt aaagatagtg 300
 gggatcaatt acttaggtca tgcttgggtg catgatgagc tgacatagtt gcatgttgag 360
 ggaattagag ttagtgagga tcaactattt aggtttataa aatgggtgtt tcttgaana 419

<210> 5254
 <211> 416
 <212> DNA
 <213> Triticum aestivum

<223> unsure at all n locations
 <223> Clone ID: LIB104-014-Q1-E1-F1

<400> 5254

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 cgaatgcaat ggcgatggcg cggcgcttgg gcagctgtcc tcgcccgcca cagtcgatec 120
 caagtgggtc aagaggatcc ttgcaaactg gcagtcggca cagcgggtcac gcgtgcgcaa 180
 gctgcagtac atctcggagc ttgagcgcag cgtcacgtcg ctccagacgg aggtgtcggc 240

attgtcccccg cgtgtggcat tctcgcacca ccaacgctca ctgctgacgc tggggaacag 300
ccacctcaag cagcgcattg cggcgcctgc gcgggacaag atcttcaaag atgctcatca 360
ggaggcactg aagaaggaga tagagaggct gaggcanatc ttacagcagc agagcc 416

<210> 5255
<211> 407
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-014-Q1-E1-F11

<400> 5255

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gtaagtttca ttactgttga attggattgt atcgagtga attcagagat ccatgccaaa 120
agtaagggaac ctatgagaaa gaagtcattc aaagggttac cagtcagcac catggatgtt 180
gggctagcca gcctgggttt gatcatcagc tctatcttaa tttgattgat acctaggtcc 240
tccaacgcat cactcttttt ttcatgttaa acgtatgagt gatgaataat agtgcctatt 300
tgttcatcgc ttactatgcc tgtgttaa atagtgccggg ttggctactg cattttatga 360
ttattgtagt tatccacatg aaagtgtctg tgcttttaata tataatt 407

<210> 5256
<211> 436
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-014-Q1-E1-F6

<400> 5256

taccagtcta gaattcccgg gtcgcgggg aggttgagaa gctgattggc aggatagtga 60
agtggctgaa gcccggtggg catattttca tcagggaatc gtgcttcac cagtctgggg 120
attccaagag gaaagtgaac ccgacgcgct accgggagcc gaggttctac accaaggtgt 180
ttaaggaatg cactcctat gaccaagagg ggaattcctt tgagctttct ctggtaactt 240
ccaagtgcatt tggagcttat gtgaaaagca agaagaacca gaaccagata tgttggtgt 300
gggagaaggt caagtgcaca gaagacaaag gctttcagag attcctggac aatgtgcagt 360
acaaatccac tgggaatctt cgttatgagc gcgtgtttgg ggagggttat gttagcaccg 420

gtggattcga gaacac

436

<210> 5257
<211> 436
<212> DNA
<213> Triticum aestivum

<223> unsure at all n locations
<223> Clone ID: LIB104-014-Q1-E1-G1

<400> 5257

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cacggagatt gttgctcgga caacttctcg ggcgaggaat gcaacacaaa gagccaaatc 120
gggtgggggtgt ttggcgctct tcgtgtcact gatgacctgt tgatgaggag ggcgtatattt 180
aggaagcagc agcttgacaa caaaacaaca tcacctact ctaactgaag aggacagccg 240
gtgtgatttg ctcttacatt gatatcgcat gcgtatgaat aatgggtccaa tggaattggg 300
agcggagtaa gaagctcatg ttgcctttat gcatgtaata atcatgcctg cctgcatggc 360
ccgctagctg ttgggtccaat gcttggctgc ctgcctgaac tggcgtcaat ttccaagttt 420
gtttttgtat atataa 436

<210> 5258
<211> 364
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-014-Q1-E1-G10

<400> 5258

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tgaacagcgt caacactgcc ttccggcacat atgtggtggt actcagaagg acctccaggg 120
ctgatacaac aatcagaata aataaatgtc taagcatact gttctgattg tagttccata 180
actgtaaadc tgtaactata tgggtattgtg attctgtcgc aagtagaata aagaccccg 240
gtatgctaca aaaaaaaaaa caaaaaaaaaa agaaagagac agattaaaac gataaaaaca 300
aaagtagacg tcccagaaag ttcaaagtaa cgtctagatt gtaaaaaaaaa gcggccgccc 360
taaa 364

<210> 5259
 <211> 170
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-014-Q1-E1-G4

<400> 5259

ccggggccga ccggctctgt catatctatg atagttgtgg ctatcgatgg catgtgcaaa 60
 aggaggtaca aaaggcaaat cctgagcgga cgttctacag gatctaagct taaggcgtct 120
 tacatcctat gtcggagggtc atcgatgctg acatcgaaat tcaattcatc 170

<210> 5260
 <211> 438
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-014-Q1-E1-G7

<400> 5260

gtaccgatca agaattcccg ggtcgacggg ggagctatat ttttattcac caacatgata 60
 tgtgttttgc ttggagcgtc ttgtattatt tgtgtctttg tgtttttgtg tgccacaatc 120
 atccttattg tacacacctt ttgagagagc catacatgaa ttaaaatttg atagaatact 180
 ctatgtgctt cacttatatc ttttgagcta tgtaattttg ctctatgtgc ttcacttata 240
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 tttgctctat gtgcttcact tagatatttt agagcacggg ggtggatttg ttttaaataa 360
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<223> Clone ID: LIB104-014-Q1-E1-G9

<400> 5261

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cgccatcgcg gatgcctccg tgggcgtagt caccaaggag gatgacagta tcatctcggc 180
cgatgctccg gcgatagaga aggaccagat cgacacgttc gtgcctgctc cggcagccaa 240
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tcc 363

<210> 5262
<211> 371
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-014-Q1-E1-H1

<400> 5262

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tgagttagtc ttaaagggtga gatcaggaac ctatcttctg tttatcattc cacacatgca 180
atatgggttt ccctctgaat ctcatgata tctcactaat atgtagacta aagaaccatt 240
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cattgctgtt agggcatatt taaaatataa taaatcaaca atgttgatga gatgggagag 360
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<210> 5263
<211> 410
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-014-Q1-E1-H5

<400> 5263

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agcatcaatt gtttttcagt tccagaacgc tgttgactta aacatggttt ccctcttttg 180
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tcggttattc tgtctgttgg tatattggaa ttagacttta aacctgtgat gataactgaag 360
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<210> 5264
<211> 382
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-014-Q1-E1-H6

<400> 5264

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gtgtctgcaa acatcccat ggccctctc ttggggctac tgaaacccaa cggcaagatg 180
atcatggttg gcctccaga gaagcctatg gagatcccc cctttgctct ggttgctacg 240
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ctgcgcgcca agcatgacgt gacggcggac atcgaggta ttgacgtcga gtacgtgaac 360
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<210> 5265
<211> 400
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<213> Triticum aestivum

<223> Clone ID: LIB104-014-Q1-E1-H7

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tgagcactgg ttctgaggta gagattgctg tgaaggctgc cgaagagttg acgaaggagg 300
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<210> 5266
 <211> 359
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: LIB104-015-Q1-E1-A1

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 cggatgccgg agctgcagca gtgggggtgga gcctggcgga ggggaggagc gatggaggaa 180
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 ttcacctggt cggagaagtt cccaacgac aactattttg gaacagaggg agtatatggt 300
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 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: LIB104-015-Q1-E1-A10

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 acggtcgtgg gagaccaagg acagccagct gacgatggtg gcggacgacc tgaagccgcg 180
 ggcggtgctg acgtgcccgg agaagaagtt gatccagcag gtggtgttcg ccagctacgg 240
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 <211> 327
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 <213> Triticum aestivum

<223> Clone ID: LIB104-015-Q1-E1-A8

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ctatcattag gatttgaatg aatgcaataa aggatgggtgc tccttgtaaa aaaaaagaaa 240
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<210> 5269

<211> 329

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-015-Q1-E1-B11

<400> 5269

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cgggaaggca tccccctctt cgtcttcgtt cattggtaac tttacttgga gctatatttt 180
tattcgccac acgatatgtg ttttgcttgg agcgtcgtgt attatattag tatttgcttt 240
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<210> 5270

<211> 59

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-015-Q1-E1-B12

<400> 5270

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<210> 5271

<211> 320

<212> DNA

Journal of the American Medical Association, Vol. 60, No. 17, May 19, 1918, pp. 1311-1312.

[illegible][illegible][illegible]

Journal of the American Medical Association, Vol. 60, No. 17, May 19, 1918, pp. 1311-1312.

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Journal of the American Medical Association, Vol. 60, No. 17, May 19, 1918, pp. 1311-1312.

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Journal of the American Medical Association, Vol. 60, No. 17, May 19, 1918, pp. 1311-1312.

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ggcctgtggc aatttttggg ggattcccat ctactgcatg gtttgatgtt gctgatcttt 300
cagaagattc tctgatgat gttgaggggc tggattcctc agctgcacat gttgcaaatt 360
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tttcttgctg tcgtcccgct gcctgctata acggacagcg ctccctgttg gcgccgccgc 180
cggcgggggg ggtgccttgg cggcggaggg tgtatgtcct ctgccgccgg gtgctcncct 240
gcttgtagct agatgggttg ttactctttc cgtccattgt caccggctaa cattgtgata 300
atatcagtct gggtaat 317

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<223> unsure at all n locations
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gcatcaccaa cgtcgactcc gttcactcga tctcagtaat tgtcattacg ttgtcaaadc 180
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gt

242

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<211> 331
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-015-Q1-E1-C11

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atgttgcttc ctctatatat gagctatgaa aataattaag cgatgcctat ctcatctttt 240
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<212> DNA
<213> Triticum aestivum

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gtccctcaa cgtccctac ttcttcgtca caccacaagg ggtccgggag aagaaccccc 180
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<210> 5278
<211> 435

<212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-015-Q1-E1-C3
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 cgtgtcaaca tagaacaaca ggagtgttgt gtgaattttt gtgatttttc ggggttcatg 180
 tggacatttt tatgcattaa ctgagttttc aatgcattta tgtgcataat tcaaatatga 240
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 gtgcatgctt aggtcccatg caagaaatgg gaatgaattt caaacacgat ggcacccgtt 360
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 <211> 446
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-015-Q1-E1-C5

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gctcggcctt tgcaagctgt aatcttaatt tcctttgcat tagctgcttg tggagggttg 180
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<210> 5281

<211> 441

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-015-Q1-E1-C6

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aaaaattcaa cctcttctgc tttgggcact caatgcttgt tttattgcaa aagaattctt 180
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<210> 5282

<211> 402

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-015-Q1-E1-C7

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<210> 5283

<211> 383

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-015-Q1-E1-D1

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<210> 5284

<211> 325

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-015-Q1-E1-D10

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<212> DNA
<213> Triticum aestivum

<223> unsure at all n locations
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<212> DNA
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caac 424

<210> 5287
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<223> Clone ID: LIB104-015-Q1-E1-D5

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<223> Clone ID: LIB104-015-Q1-E1-D6

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aacgttaatc atgttggtat tgatgtat 448

<210> 5289
 <211> 389
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: LIB104-015-Q1-E1-D7

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 <212> DNA
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 <223> Clone ID: LIB104-015-Q1-E1-D9

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 aacagacgtc tcctccagcg cggagac 327

<210> 5291
 <211> 332
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: LIB104-015-Q1-E1-E10

<400> 5291

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ccatgggagc aggtgatgtg ctctatagt cctatggttt gcagcgggat tggagtgggg 120
cgatgctaca agagatatgt ttgatacatt gtcgttgctt ttatctggtt cattaccctt 180
tatatggatg agggggacat ggattgatta cctctaatt gtggtttgtg ttggactctg 240
gttatctcgg cgtcgcgtga tgggcgcttg cctgggtaaa aaaaagaaaa aaaaaaaaaa 300
aaaaaaaaagc ggccgctcta aaggatccaa gc 332

<210> 5292

<211> 450

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-015-Q1-E1-E12

<400> 5292

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tgtcagagtc gccgccatca gaagagaagg aggagtcaca caagtctttc gagttcccc 120
tgtccaaaga tttggctgca caatcagcag atgttgggtc tagcacgcc aagattcaga 180
tgccgctctg acctgctgaa gttaccactg ctgcgaccac tcgtgccaag tcaacagtga 240
aggctgaatc gtgcaactcc aacgtgcagg ggagctcatc cactcgctca aagaccgtgc 300
aaccgtctaa tctgaagcag tcctcgctgg cattaacgaa gaagagtgtg ctaaaggggg 360
ctctgatcc ggtggccgga aaaggcatct gctgctgcaa atgatattag gcaagaaaat 420
caggctgtga agaagcaaaa actagatgat 450

<210> 5293

<211> 417

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-015-Q1-E1-E2

<400> 5293

cgggtccaga aatcccggtt cgacggggaa cgtgctgacc atcttcgagg aggaaggcgg 60
gcggccggac gccatcatga tcctgacggt gaagcgcgac aacatctgca gcttcatctc 120

ggagaccaac cccgggcacg tacggtcgtg ggagaccaag gacagccagc tgacgatggt 180
 ggcggacgac ctgaagccgc gggcgggtgct gacgtgcccg gagaagaaga tgatccagca 240
 ggtggtgttc gccagctacg ggaaccgct ggggatctgc ggcaactaca cgcttggcaa 300
 ctgccacacg cccaaggcca aggagattgt ggagaatgcg tgcgtgggga agaggagctg 360
 cgtgctggcc gtgtcgcacg aagtgtacgg cggggacctc aactgcccgg gcaccac 417

<210> 5294
 <211> 436
 <212> DNA
 <213> Triticum aestivum

<223> unsure at all n locations
 <223> Clone ID: LIB104-015-Q1-E1-E5

<400> 5294

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 tctagaaata aaatactaaa atctgaaaaa caaaaaatca cgaaaaatgg ataaatgatt 180
 ttgatttcaa ataatttcat ggatttgaaa aggaattcaa aaaaaaaaaat catcaatacg 240
 aaaaaagctc atgggttttg aaaaaagttc atcaaattga aaaaacacaa aattgaaaag 300
 gttcatgtgt ttgaaagaag ttcattgact tgaaaaatgt tcattgattt ggcaaaattt 360
 catgagttca aaanaagttc acttaatttt ganaataagt ttacggattt gaaaaaagtt 420
 catcgatttg ataaaaa 436

<210> 5295
 <211> 393
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-015-Q1-E1-E7

<400> 5295

ggtaccgagt ctggaattcc cgggtcgacg ggagcatgag aaaccacaca aaattttctt 60
 cgacacctac ctgtaactga attaatctg taagggtca tttgccttgc atgattctaa 120
 aaacataggg atagggtcatg gaaaaacacc tgaatatgat aggaatgcac atgggaaaca 180

tcgcatttgt gaacacagga tttctgtcaa cttgggtggt tgcttcacac gaattggagg 240
 agcagaggaa tgcacataag catggccaca ctagagtga accatatgaa agcgtgtata 300
 tggaaaaaaa tcagcgggtca ttcacacgaa acacggccgc tcttcaggat ccaagcttac 360
 ttactcgtgc atgctacgtc aaagctcttc gat 393

<210> 5296
 <211> 322
 <212> DNA
 <213> Triticum aestivum
 <223> unsure at all n locations
 <223> Clone ID: LIB104-015-Q1-E1-F10
 <400> 5296

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 tggttcgggt gcggtgtgag gctgccgtcg ccgcagggcc tggccagcgg tgggaatagt 120
 angggcgggt aggcctccgc ggcagcacag ccggccatgg gaggcaggag catgcgacac 180
 gaccggcgct gctttgggtg gctggagcaa gaagaccaga ggttgaagaa gcaactacggc 240
 cgttgatgg acatcgtacg gtcactggag ctagaatcat tcatattgac taagttgata 300
 aagcccttca tccccatcaa ct 322

<210> 5297
 <211> 339
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-015-Q1-E1-G12
 <400> 5297

ggtcaagaat taccgggtcg acgggcctaa actctggctc aaaggtttct ttcaagaatc 60
 aagagagaac attcaaggag tggattgttt ggaaattaaa accttcagat ttcttagaag 120
 tgaggttgct ttccaactac aattatagct tcaactggat ttatgtgaat ataagcgtaa 180
 gatgtctagt ggcaatgcta caaaatcatt gcaggcgtga ctcgtagta tccggattgc 240
 actgctgctg gccgtttctt gcaactgcgc acaacaggct tctgacaaag ccaagtctta 300
 gactcatgag gtcccttttt tcagccaaac tgaaagcac 339

<210> 5298
 <211> 444
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: LIB104-015-Q1-E1-G4

 <400> 5298

taccggtcta gaattcccgg gccgacgggg tggcagtcgg ggacgagcga cagtcttttc 60
 ctaccaatct atccccctac gagcatgcgc gtagtgcttt ggtttttgat gacttctaaa 120
 tttttccaac aagtatatga gttcttttga ctaatgttga gtccatggat tatacgccacc 180
 ctttcacccc tccattattg ctagcctctc ttgtatcgtg caacttttcgc cgggtaccata 240
 caccacccat ataccttcct caaaacagcc accataccta cctattatgg catttccata 300
 tccattctga gatataattgc catgcaactt tccatcgctc catttattat gacacctttc 360
 atcattgtca tattgctctt tgcatgatca tgtagttgtc atcgtatttg tggcaaagca 420
 ccatcataat cttcatacat ttgc 444

<210> 5299
 <211> 406
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: LIB104-015-Q1-E1-G7

 <400> 5299

ggtaccgatc tagaattccc gggccgacgg gcgccgttta ggaatcgccg gcataggcgt 60
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 ccagtcgctc tcggtttttag gtttgggact tttctaaaat ttcttgaaca agtttttctg 180
 ctttacttct ttattgtttt ttatttcctt ttttcctttt tcttttccgt ttcatTTTTT 240
 cttttttctt tttctgtttc ttttctgctt tattttttat tatttattta tttattaaca 300
 tttcgtcttc cttttctttt ttatttctca agtccattta ttttcaaact tgaacaaaaa 360
 tttcaatttt tctttggaat tccaaatatg ttctcgtcct caaaat 406

<210> 5300
 <211> 444
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-015-Q1-E1-H5

<400> 5300

ggtagcggtc tagaattccc gggtagcagg ggaatagatc atcacttgaa cataagtaat 60
catatgacaa aatctatata tgctgctgct atgagaataa tcatgatgcc ttcattgtccg 120
tattttattt ttatcgacgc ctctacctct aaacatgaag acatattttt tggtatcggc 180
ttttcgcttg aggacaagcg aggtctaagc ttgggggagt tgatacgtcc attttgcac 240
atgcttttat atcgacattt attgcattat gggctgttat ttcacgggat gtcacaatac 300
ttatggctat tctctcttat ttacaagat ttacataagg agggagaatg ccggcagctg 360
gagttctagg ctggaaaagg agcaaatatt agagacctat tctgcgcaac tccaaaagtc 420
ctgaaactcc acggaatatc aaaa 444

<210> 5301

<211> 444

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-015-Q1-E1-H7

<400> 5301

gtaccggtct agaattcccg ggccgacggg cccggcgacg cggcgggtggt ctggcccgcg 60
ggtagcggcg cggaggagga ggccggggag acggagaagg aggtgtgggc gaggttctac 120
ggcgccggct tctggaggag ccctcgtcgc ctccggcgacg agaacagatg atcgggacag 180
gccggcggct cctgcatgca tgcgacgcc tggcttcttc tacggctttc ttgattcttg 240
ctcgggtagg ctctcttctg tttctcggg gggaaaccga ttagaggag gaaatgggaa 300
gcttgtgtgt cgtgtttgat ccacaccgca ttcttggtcc accttgatc cgctcttttt 360
tcttcttttc tttctggtgt acgtcttctt tgttgccatt gtatgcaact aaatgtatat 420
accgagtaat gtgattgggg aaaa 444

<210> 5302

<211> 484

<212> DNA

<213> Triticum aestivum

<223> unsure at all n locations

<223> Clone ID: LIB104-016-Q1-E1-A4

<400> 5302

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tagtatgttc ttatatccaa tcattgcatg aaagttgcat gatctttgat ttcagaatta 120
tttatttcat cttctttata gaatgttcag ttctgaactt gtgaactttc cttacgtaag 180
cgtgcgtgtg caactcaatt gtaatcttag gaattttctt gttcattcta gttagcaatc 240
atatatgaac gaagttatga ataagatgtg cacacaactt gaacatgcgg cttttcgta 300
ttacaattgt gatcgacccc tctgtctatt attgagatgg cccgataaga tcaccaactg 360
tagatgtcaa gacttaatac ccacaataag cgctgctagt gaaaaagatg cccataccag 420
tacaacatag atogaagctc ttcaacaaac ataactcgat aatttcatta acattggctt 480
acat 484

<210> 5303

<211> 477

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-016-Q1-E1-B5

<400> 5303

tccgaaattc ccgggtgccc gggtcacggt ggcaatggta aacgcaaggc tgagggcggt 60
ttaaactttg tggccaacac caatacgcaa aacaatagtc agtgtcagaa ggaaaagcca 120
ccccgacttg gcgggcccac gttcaacctt gaggcgatga tgaaccagcc ttgcccacaaag 180
cacggtatgc aagagaagcc ggtcagtcac ctatggaagg attgcttcat cttgagggcg 240
tatagaaact ccaatttttt ccagaacaat cacggcccga atggcggacc aggatccagc 300
tctcacgggc ctggcttttg tggaggcggc tcaagttctg gtttccaggg ccatggcaat 360
caagggtggtt taagtcagca gtatgggttaa gggaatcaac aggagcaatc tggttattag 420
agtaacctga agcagctaaa tagtggacca tatcatgtgt tcaccacgag tttatgc 477

<210> 5304

<211> 216

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-016-Q1-E1-B6

<400> 5304

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aaaaaaaaaa aaaaaaaaaa aaataaaaaa aaaaaaaaaa aaaccaaaaa aaaaaaaaaa 120
aaaaaaaaaa aaaaaccggc cgcccaaaag gatcaaacct aacttacct tgcattgcaac 180
ttcaaacccc ttcaaaagt ccaccaaaat ccaatt 216

<210> 5305

<211> 445

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-016-Q1-E1-B7

<400> 5305

cccggtggc cggaacaat ggtacaaatt caactatgta tctgccaaag ttgattatgc 60
ttaactctag gcattgcatt actatatcat ggtgaactat tctttgaaga attttagtagga 120
ggtactagaa aagtatgact tgatgagga tgccttgatt ttaaagaaca gcctgaaaga 180
atttagttta gtaaaatatt gtatagcctt ctcgtaaaag tttgatacac tttttcaaga 240
aaacgaactt tggtaataca ttaagctata actttttotca tatttgaaca acaagggttat 300
ttgagctctg ctaaaaaagt ggcaatgtta aaaaaaagggt tattttgtgt aatttttgca 360
aactttgttg aaagaagcta caaataattg atttgcgtgt caagtctaca gtccaatggt 420
aatctacagg gtggaatctt caaac 445

<210> 5306

<211> 449

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-016-Q1-E1-C3

<400> 5306

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ctgaaatgtg cgcacgggat ccacactgcc tgcattcacac ctcgtatgcg cgtggagccc 120
ccaggccagg tgtgcaaac gccagccgcc tagggtagga catgagccag ccatgcctat 180

gttcgtccac attgatccaa ccatggaatg gatttacacg ggctctcact caaatcccag 240
 gtgcatgaca gctagcgaaa tagctagcta cgatcaattg atccatgcgt tagatacacg 300
 cgtgatcaca cagttgcgca gtgccatgat catgtccggc cacaatcagg ccacatatta 360
 tgcaacctgc tagataccta cggcattgac ctcacatata gctcgaggag cactctgtat 420
 cacatatacc agatacactc atacatgca 449

<210> 5307
 <211> 375
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-016-Q1-E1-C5
 <400> 5307

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 gtaaagagta aactgaagag caagagaaga tgaaaatgta tgcgcatctt tggaagagat 180
 tttgccagtt tagttcgttt tttcggttca tggtgaaatt ttcaccggag aagaaacatg 240
 ccttggtgcca gtgtagcttt gcgtagttta gtgcgaggcg gttttcatgt tcacacgaaa 300
 atgaaatctt ggcgcgccat tttatcttgt gtgtcattcg aaacaaaaaa tagaagggat 360
 cttgtgtgtc attcg 375

<210> 5308
 <211> 457
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-016-Q1-E1-C8
 <400> 5308

ccgggtcgac ggggacagta aacttattat cacgagcggg agccttaagc atggcctcga 60
 catgctacag agcatccata gtgataacaa gagctcaaaa aaatcgctaa aggatgttgc 120
 cacagagaac gagtttgaga aaaggcttct ggcagatgtt ataccaccga atgatattgg 180
 agtcaccttt gatgatattg gtgcggttga gaatgtaaag gaaacattga aggagttggt 240
 gatgctccca ctgcaaaggc cggaattgtt ctgcaaaggg cagttaacga agccttgcaa 300

gggaatattg ctcttcggcc cccctggcac tgggaaaact atgcttgcta aagcagtagc 360
aactgaagca ggcgcctaact tcatcaatat atcaatgtca agcattacat cgaagtgggt 420
tggcgaaggg gagaaatatg tgaatgctgt tttttca 457

<210> 5309
<211> 343
<212> DNA
<213> Triticum aestivum
<223> Clone ID: LIB104-016-Q1-E1-D5
<400> 5309

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agagagagag agagatcaaa cacatagcta ctggtacata ccctcagccc cgagggtgaa 120
ctactccctg ctcggttatgg agagcgctgg gatgatgaag atggccaccg gtgagggatc 180
cccccttcgg cagggtgccg gaacaggggc ccaattgggt tttgggtggct acagaggatt 240
gcggcggcgg aactcccgat ctaggttatt ttctggaagt ttgggtatat ataagaggtg 300
tttgcgtcgg gaacaagtca ggggggtctt cgaggcgccc acg 343

<210> 5310
<211> 478
<212> DNA
<213> Triticum aestivum
<223> Clone ID: LIB104-016-Q1-E1-E7
<400> 5310

tccggaattc ccgggtggcc gggagaattg ttgatcatga gatgacactc aaggataaga 60
agagctccac aacaattcaa gtggttctta caaagcttca tgtgatgctc ctacagcatc 120
aagtgagaat taagtctcga atgaagaatt gagcttaatg tgaagaactt caacaagttc 180
tacaagaata gaagcaaaga gagaagttgc aagtcaaggt cctaaaatga caaaagatct 240
tctagtcgtg atcgtaattg ctacaattgt ggaagacccg gacactactc caatgagtgt 300
acgactccct acaagaaaat ataagattca ccaaaaagga ggagtagaag agatgaatca 360
cctccaagag agaggagtag agatgatggg tatgagcgaa taccctctca tagaagcaag 420
gattcagaaa ggaaggacaa gtcatcaaag agctacacaa ggccaagact gcaagctc 478

<210> 5311
 <211> 473
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-016-Q1-E1-F1

<400> 5311

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ccaacgacca gaccacgacc gcttacggat ccctaccttt atcaatacct catatatact 120
cgcaatattc agattgcttt tatcaaattc atgcttggtc atcgattggt tgcaggaata 180
gaccttcgtg gtcaggttga ttgtgctcgg gtgtgggtcaa taacctctca gagttggttt 240
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ccaaatccat agttatcatc tcatcgaaag atcgggacac cccgcctcta tcatgtggta 360
tcagttttca ggttgctcgg tgagaatttc cagttttcct acattagatt tattttctta 420
cctattgtcc aataaattgc catacacaca atcagttaga tctgttcac ctt 473
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<210> 5312
 <211> 489
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-016-Q1-E1-F5

<400> 5312

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aggccttaga gccccgcga tcaaagaata aggaaaacac ccggtcgggt aaacaaccct 180
acggccaaca tatagcagca atgggcatcg tactcaagcc ggcacgcgat ccgcacaagg 240
actcgcatca aaaagacagc ccagccagat ctatctacgg gccaaagaaag caagctctag 300
taagcaatgc aacgcaacaa gtatccgaac atcacggcac acccaaatac aggggtgccg 360
cacaccccct atgtttcacc gatgaggtgc tggaccatga atctccaccg ggattcaaac 420
ccgtaaacad agaggcatat gacggaacaa cagaccctgg agtctggatt gaggattata 480
tcctccaca 489
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<210> 5313
 <211> 474
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-016-Q1-E1-G5

<400> 5313

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 ccactcacga cacgggagcg actctgccgc gcagagcgct cacctcctta tcttgtgtgc 180
 cgaggcttgc tcgtctatctt tcctttttac ccaggcccaa tagaaagtaa cggcccaagc 240
 gttaacggaa gaacgtagac caagcccgtg agcgaaagaa cgttgtaata aggaattttg 300
 acaaaaatct ttagtgcgta ccccaaatta gtaccacctc gtttatatta cgattttatc 360
 tatataaatt gtaaaagcgt attatgacat gagaagaaag cgtattgtga cgggtgaaccc 420
 gacaaagtca atccgtgctt tattattagg gagagataaa tggatgcagt tttc 474

<210> 5314
 <211> 410
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-017-Q1-E1-A1

<400> 5314

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 aataaaaact atcataggaa gtgaattgga tgctatgac aagttgatgc ttgataattg 120
 ttttgagata tggagggtgg gatattagag tcatgctagt tgggtaattg tgaatttaaa 180
 gaatacttgt gttgaagttg gcaagcccca tagcatgcac ttacggtaac cgttgtgtaa 240
 caaatttgaa acatgaggtg ttcttagatt gtcacacctt tgagtggcgg tcggggacga 300
 gcactgggtc tttcctagca atctatcccc ctaggagcat gcgcgtagtg cttgattttt 360
 gatgacttgt agatttttgc aataagtata tgagttcttt atgactaatg 410

<210> 5315
 <211> 311
 <212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-017-Q1-E1-A7

<400> 5315

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tgtaactatt gttgttggtg ctggtgctgt tggtgttggt gttgttggtg ctgctgctgc   60
tgctgtcgct gctaatagctg cagttgctgt tggtgttgct gtcatacaacg ttactgttgc  120
tgtgaccggt gctgttggtc tcggtgctgc tggtgctatt actgctagtg cagttgtatg  180
ttattgatct ctgcagtcgt ttatgctcgt acagttgtta ctgttcttct agttgttgta  240
gatgcaatag ctggtggagc tagagaatgt tatctttatt gatcattgat gctattacag  300
aagccttcaa a                                                                311
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<210> 5316

<211> 463

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-017-Q1-E1-A8

<400> 5316

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acgaggagag cggcgaggag gtggacgagg catgcgccga ggccggccatc ctgctgacca  120
agctggcgat agcgcggcag agcccggaca acgtcagcgt cgtcgctcgtc aacctcagga  180
ggcgccgccc gagattctga ccgccgctgg atccatggat ccaccatact atcgtccgtg  240
atccctgact cagcggcgaa cgtggcatcc atagcggaat tcatgaaata cacaacgaaa  300
ttgtttcgtt tattttccgg ggggtggcaaa ggtgttgagg ccagacagac ccacgccgcc  360
cccgccattt tcctttcgaa agccggcgat ggtttccggc gtgtcaagaa gctttctttc  420
tcgagcgtca tgagaaactg tactataatc cgttggaac gaa                                                                463
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<210> 5317

<211> 480

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-017-Q1-E1-A9

<400> 5317

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 gcaagcgcgga actccctccc cg gatctgca actagccggc ttccctccc atccgtctcg 120
 ccgcgggcga gatccttcct tctccggcg agagccaaga tgtactcgtg ggagatgctg 180
 tcgttcaaca tccacgacgg gttcctggag gcgatcgtgc gggggaaccg ctccgggcctc 240
 ctcacccaag ccgattacaa caacctctgc cagtgcgaga ccctcgacga catcaagatg 300
 cacctctccg ccaccgagta cgggccatac ctccagaacg aaccttctcc cttgcacacg 360
 acaacaattg tggagaagtg cactctcaag ctgggtgatg aatacagaca catgttgtgc 420
 caggcgaatg aacctctatc tacattccta cagtacataa cgtatggaca catgatcgat 480

<210> 5318
 <211> 474
 <212> DNA
 <213> Triticum aestivum

<223> unsure at all n locations
 <223> Clone ID: LIB104-017-Q1-E1-B12

<400> 5318

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 cctaaaaataa gtgactcaac tttatattaa ttttatgaga aaaaatcacc atatattaga 120
 aaaggttgag tatgtattat gaaaatgttc atcacataat aaaagagctc accgtatata 180
 aaacgatcag taaatataaa gaatatgtat attaataata tattcggccg gtgttcggaa 240
 aatattgatc gcatatttaa aattgtactt aataaactat atgaatgaaa aagtgcaaag 300
 taaaaaccaa aaagacaaac aatgtgaaac ccagacatga aagaaagaga aaaaccact 360
 aacactgtgt attaaaaaag gcaaaagaaa aaataaaagg gaaaataaag aaataaaata 420
 agacataaat agaaatctac acataaacat aaaaccggaa ctaaattgga acag 474

<210> 5319
 <211> 425
 <212> DNA
 <213> Triticum aestivum

<223> unsure at all n locations
 <223> Clone ID: LIB104-017-Q1-E1-B2

<400> 5319

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 aggaagagag gccacgcctt gctgtatgcc gattactttt ccaacanacc gctcttcaag 120
 ccggataaat tctgacgcca ttttcgaatg ggaaggcatg tgttcaatcg tatctgagag 180
 ggagtgggtg ctcatgaccc atacttcgag tacaagaggg atgtccttgg caagcttggg 240
 ttctcctctt accagaaatg cactgcggcc gtccgcatgc ttgcctatgg aattccaggc 300
 aatttgggtg atgacgacgt gcgtatgagt gagacaacat gtctgatgtc aatgtacaag 360
 ttctgtcagg ctatgatcga ggtgtttggt ccagagtact tgaggcagcc aactgccgct 420
 gatac 425

<210> 5320
 <211> 427
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-017-Q1-E1-B6
 <400> 5320

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 gtgtttggcg agctcggaag gagagccgca gagagcaggg aggaaagctc tagtgctcaa 120
 gagaacaacg agcaacagct ggtgtctctc gagagaatca agcgaaggcg tcaatagggt 180
 cgaagattgt gatccaagca cgccattacc tgtcgtttga gcctaattgat gttgtagctg 240
 ttacgtgtaa catgttcttg ctacggtttg ctcttcttgt acaatgattt tgcaggagtt 300
 aatccggtgt ggatccgcag cgtttttctg tgtacaaact gtaaactctt gggacacgtg 360
 tccatcagtt tcagtgaat tttgtcgatt tcaacgatga acaatggact ggcagctttg 420
 ttacaaa 427

<210> 5321
 <211> 409
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-017-Q1-E1-B8
 <400> 5321

ggtaccagtc aagaattccc gggtcgacgg gggcggcaaa actccgaggc tggagactcg 60

aggagaacga ataagaagaa atcacgggaa caaaaaggag acgacccttc agtcttattt 120
 ataaggcaac agagttatat caaacgcacg gatgcaagag ctgcagttaa aagaagggtg 180
 gatatatgaa aaatgtcata aggacgtcat gcaggttcta caacaaccac aagtgatgac 240
 atcatgacag ttgaccaagt accagcacat gtcgatgata caagattttg tgacagattg 300
 acatgaacca tttcagatca cactggggcc taaagttggg gatactacca ctatgtgtaa 360
 gccggcatac ttggggccggg ttaacttcat tagtaggaca agcagatga 409

<210> 5322
 <211> 399
 <212> DNA
 <213> Triticum aestivum
 <223> unsure at all n locations
 <223> Clone ID: LIB104-017-Q1-E1-C10
 <400> 5322

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 caaaggcaca agggccacaa aagttggttt ttacttcatg gagcaagaga agcaatgtga 120
 tgggcctaag gatttttttg atacgctagt agtacaacta tgggctgac catatgtttg 180
 gcctctgtac gccaaaggcgt tcgagagatc aacagataag gcagcgtcca tacttaataa 240
 atagttattt agattagagt ttagactcgg gttttattgt actccctccg tccggaaata 300
 cttgtcatca aaatggatac caggagatgt atctagacct actttagttt tagatacatc 360
 ccttttttagc aaggtttgat gacaggtact tccggacgg 399

<210> 5323
 <211> 459
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-017-Q1-E1-C6
 <400> 5323

aattccccggg tcgacgggtg catgtcatag agagagacct gacagagcct gatagaattg 60
 tgggtgaatt gttacaacct ggaggctacc tgaaattgat ggaattgggt ctgcaggact 120
 gcgttgatga aattgatgca cagcgtgtcc ttggttatgc attattcaaa gatgggaaga 180
 acacaaaact ttcttacccc ttggagaagt tccattcaga tgtggctggc aggagctttc 240

acaatggacg gttcatacag aggatgagag aaaaggttgc atctttgccc aatgtccaac 300
 tggagcaagg aacagttaca tctttgcttg aagaaaatgg tacagttaag ggtgtgcaat 360
 acaagatcaa gtcaggtgaa gaactaaaag cttatgcacc attgacaatt gtatgcatg 420
 gctgcttttc aaacttaaga cgtgcccttt gctctccaa 459

<210> 5324
 <211> 402
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-017-Q1-E1-C7
 <400> 5324

aattcccggg tcgacgggta catgtaaact attgactcac ataccttcaa atggtgtgtc 60
 ttatcttcat atagatgaat taatttagcc catatataat atccacctaa taatcagata 120
 tttggataat aataataaac agctggttac cagcagctct tgccatgata cttaaggcac 180
 aaacagtttc tacaacttcc aatgttatca ctatgcataa tattttgttg acagaaaatt 240
 cactcccctg cagattggct gcaaacaaca aaaatatgct gacaagttgg ccaacttacc 300
 aatgcatcag ttttcgtact tgtcttgaaa tctgctaggg tttgtagtct ggctagtatt 360
 cctgaacgtt tgccagtctt caaatttgca cggacctttc at 402

<210> 5325
 <211> 378
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-017-Q1-E1-D1
 <400> 5325

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 ataagatttc ctgttgagtt ttgtgttggt aagtttaca gttttgggtt aagctttgaa 120
 ggactacgga atacagtggc gagagcctaa gcgtggggat gcccatggca cccacgaga 180
 tactacgagt agcaaaagcc taagcttggg gatgcccac gaacagcatc ccctctttcg 240
 tcttcgttca tggggaactt tacttaaagc tatattttta cagccacat cataagtatt 300
 tttctgcag cgtcacgtac tacatcaatc ttaacttttt aatataccac aatcatcctt 360

tctgtacaca ccttttga

378

<210> 5326

<211> 303

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-017-Q1-E1-D2

<400> 5326

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ttcatctcct tctgcaacgc caaccccgga ctcataagg acgtcggcaa agtcttctga 120

gtcagttcat ttcacctcag ccgtccgatc caggagccga ttcattctac tagggcctcg 180

tatatcaatt tcatgcaact acctactccg gtcccgatcc agcctcagct tcagctgagg 240

ccggccctaa ctttggttga tcattttttt gctaccagta gtaactagt atgattactg 300

ttc 303

<210> 5327

<211> 407

<212> DNA

<213> Triticum aestivum

<223> unsure at all n locations

<223> Clone ID: LIB104-017-Q1-E1-D5

<400> 5327

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taagcggggc ttataaggat ttcctgttga gttttgtgtt gtgaagttga catgttttgg 120

gttaagcttt gaaggactat ggaatagact ggcgagagcc taagcgtggg gatgcccatg 180

gcacccaag agattctacg atangcaaaa gcctaagctt ggggatgcc caagaacagc 240

atcccccttt tcgtcttcgt tcatggtgaa ctttacttga agctatattt ttacacgcca 300

catgataagt gtttttcttg gagcgtcacg tactacatta atcttatctt tataatatac 360

cacaatcatc ctttctgtac acaccttttg agataagccc acatgat 407

<210> 5328

<211> 437

<212> DNA

<223> Clone ID: LIB104-017-Q1-E1-D8

<400> 5330

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caggctctgc gcgtccattg tgcggagctg cctcaaggag ccctacaagt ccgaggccgc 120
cgaagtcgag aaggtccact actcccgtc caagtggacc gacggaaagc agcccaagcc 180
caccatctgc gaagatgata aatgaaagat ccggtgccat ggtgacagag tccttcctac 240
ggacgttttc aaaagctact gtgtttcgtg ctggccattc tacctaaaac tcgttatctg 300
ttacatttat gtttcacgct caagaataaa ttatttacgt gacattggat ctgttccgac 360
accattttat ttttaactttt aatcgctcct tctctaaaaa gaaaagaagt ggaagaaatc 420
aaaacaaaaa agcggccgct 440

<210> 5331

<211> 431

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-017-Q1-E1-E1

<400> 5331

gggtcgagcg aaggtttgca gatcacccgac aaggatcgac catgagtga atcaaccgga 60
gtcagatcag ttctacgttg aaggagaata ggggaagaa gtttatcttc cgtgttaagt 120
cacagcccct ccaaccagac gtageccctt ggcagaaggg tgaactggtc taccaaatat 180
atctgtctcc atcaagcacc attggttcta tttactctac tgcatttcca tcagcagttt 240
attttcgtgc tctgtgccga tagttttttc gattatttca ttcagggttg tatcaacttg 300
tgtttcaatg ttcacctgt ttcactgttt tcgtctgtat tcatgtgtta tcattctgtc 360
cctaagattc acctgtgaaa tccttcata cattgctatg tctcattcta ctacattttt 420
ttgcatgttg c 431

<210> 5332

<211> 414

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-017-Q1-E1-E5

<400> 5332

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gctggcgcg c taagccatta tgcattgaat tccgatgacc atcgcgctac cttcccccta 120
taagtactgt ttcccagcct tctccagtgc caccgtgacc caactcgcca taccctcata 180
agccccacc ggctcgatgt cgctcgccac gtacgccatg cccccgcccg tccacagtag 240
gcgacgccaaggcggtcac tgcgggaact agtggttgggt ttttactagg aaggcagacg 300
gagggaggag gcattctatc tgtctttaga tggcaatgcg tagaccgagg agttgttgga 360
gcgcgaccgc atggcgagg agcaggagtt gttggagcgc gaccgcctgg cgga 414

<210> 5333

<211> 368

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-017-Q1-E1-F1

<400> 5333

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gttgtctgac ggtggttgta tatcaatctt tgcttgctaa acttccgagt tccactgggt 120
cacgtttcat gcacatgtag tcggtgggga attacttacc atcatctact agtgagcctt 180
gattacagca tatgtttcgc gacgtacggt ctccaaatag atgcagctcc ctactatcag 240
gtagcggcaa ctgagtttac atcaggcggt cagttacca tcagttattg ggtgctgata 300
acctgacatc tggatctcac gcaggataat aatgcgtagg gtgaccctga gacaatattc 360
ccctggat 368

<210> 5334

<211> 428

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-017-Q1-E1-F3

<400> 5334

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aattaaatta ctttatgaat ctattatgag atccacttat ggattgcata ccaaaaatga 120

caatacctag atctattctt gtttttatgc ctagctaggg gcgttaaacg atagcgcttg 180
 ttgggaggca acccaatttt attttcgttt cttgtttttt gttcccgttt agcaataaat 240
 ggttcatcta gtctatgttt ggatgtggtt ttatgtttta attggttttt gtgccaagta 300
 gaaccttcgg gaagacttgg gggaagtctt tgcggctctg ctgtaaaaaa cagaaacttt 360
 agtgctcaca agattttatg ccatttttta ctaaagagtg ccattagggt gattaatttt 420
 aagatgat 428

<210> 5335
 <211> 430
 <212> DNA
 <213> Triticum aestivum
 <223> unsure at all n locations
 <223> Clone ID: LIB104-017-Q1-E1-F4
 <400> 5335

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 agaacgatcc gggtattgac cggcatcgat ctgtcaggca acctcttgtc tcagtgcac 120
 cctgacgagc taaccaacct ttacggcctc cgattttctga acctgtcaag aaatcatctg 180
 tcatgcggca tccctggaga tgctggtagt ttgaagaatc tcgagtttct tgatctatca 240
 tgtaatgagc tttcaggaca cattccacag agcatctcgt tcttgtcaac gctcagcata 300
 ttcaacatct ccaacaatca tttgtcaggc angatacctg gtgggagcca gatgcagacg 360
 ttgactgaac cttcgtttta ccggaacaat tccggccttt ggggatttcc tctagccgat 420
 tgtccaacta 430

<210> 5336
 <211> 416
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-017-Q1-E1-F6
 <400> 5336

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 catcctcacg gccagggtgta tgggtatagg aactccctct gggcagaaca ccttggtatg 120

gttgatgacc acttcaagga accttctagc ctggactgtg taagattagt gaaccaaata 180
gccgaagaaa actgggaaag attcgcgtca gaagagatga aaacgttgca agggcacctc 240
ctcagatacc cagtgaaggt agagcccgat ggtaagattg tcccgctgcc cgaccaagaa 300
tgcttccccg acgttggcgg caagatctgc ggcgctccga cctcgcttcc tgattcgctg 360
acgatgtagc atcacagtac tgacttctct tcagggtcca atctggttcg tttgct 416

<210> 5337
<211> 466
<212> DNA
<213> Triticum aestivum
<223> Clone ID: LIB104-017-Q1-E1-F9
<400> 5337

gggtggccgg ggaataagga gaggcaagat cctaagcttg gggattccca aggcaccaca 60
atgtaaatacc aaggacaacc aaaagcctaa gcttgggtat gcccggaag gcatcccctc 120
tttcgtcttc gtctatcggg aactttactt gaggctatat ttttattcac cacatgatat 180
gtgttttgct tggagcgtct tgtatgattt gagtatttgc tttttagttt accacgatca 240
tccttgctgt acacacattt tgggggagac acgcatgagt cggaatttat ttgaatactc 300
tatgtgcttc acttatactt tttgagctag acaatattgc tctagtgtt cacttatatc 360
tttttagagc atggtggtgg ttttatttta taaaattat ttatctctca tgcttcactt 420
atattacttt gagagtcttt tagaacatca tggtaatttg ctttgg 466

<210> 5338
<211> 437
<212> DNA
<213> Triticum aestivum
<223> Clone ID: LIB104-017-Q1-E1-G1
<400> 5338

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gctggtgttc ccatcatcct gcttcaatat catgacgcac gtcctagtgc atctagttga 120
cgagattgtc attctgggcc ccgtatttct acacaatatg tacccttttg agaggttcat 180
gggagtccta aagaaatatg tccgtaaccg cgctaggcca gaaggaagca tctccatggg 240

ccatcgaaca gaggatgcca tcgggttttg tgttgacttc attcctggcc ttaagaagat 300
 aggtctccct aaatcgtggt atgaggggag actgactgga aaaggcacgc ttggaaggga 360
 ctcaataata tgcagggacg gatattcttg gtctcaagca cactacacag ttctacagaa 420
 ctctaccttg gtgaccc 437

<210> 5339
 <211> 409
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-017-Q1-E1-G3
 <400> 5339

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 aacaatacaa tacgtgtcgt ttcccctgct gtcactggga tcgagcacgc caagattgaa 120
 cccaaagcta agcacttctc acattgcaag aaagatcaat ctagtaggcc aaaccaaact 180
 gataattcga agagacttgc aaagataacc aatcatacag aaaagaattc agaggagatt 240
 caaatattgt tcatagataa actcgatcat aaaccacaaa ttcacggat ctgcacaaac 300
 acaccgcaa aaaagattac atcgaataga tctccaagag aatcgaggag aactttgtat 360
 tgagattcaa agagagagaa gaagcatcta gctaataact atggacccg 409

<210> 5340
 <211> 342
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-017-Q1-E1-G7
 <400> 5340

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 cgtgtaggtg cccatacact tctcaatgtc ccatcaccag gctcggaact gggactgctg 120
 tccattcaag aaatcagtgc gtccagctcc taacagtctg gcattctcgt gatgctacat 180
 tacatgtagc aatgtcaatt tatatagtta tgcagacgat tcgttatgat aaatcccccg 240
 cgagaccaa atgcgatacg gacacgcgag atgatacgcg cttacatgat cgatcataca 300
 acatgcagtc tctgcaatac atgtcattct ggtgtccgtt ac 342

<210> 5341
 <211> 82
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-017-Q1-E1-G9

<400> 5341

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 ctctgcagtg gcataaccat gt 82

<210> 5342
 <211> 426
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-017-Q1-E1-H1

<400> 5342

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 actaccagta cttcctctgt gtcactggag accactctac tcctgttgag tacggagacc 120
 acagctttga acctgtcccg tttgcaatat gccgtctgag agatttcgtg ggagcgattg 180
 gggagggcaa tgtgatgaat accccccttg acgatttccc gctgcctttg gttaaatccg 240
 gagaagattt aactgatgat tcagaaccag cggaacacaa gcttggggag cgtaaagctt 300
 ttagcggcga tacagtgtgt gaatacccg agattgctgc tgcaaggggc tgccttgggc 360
 ggttccctgg aagtgagatg atgggcatca tcaagaagtt catgaaagca aagaacgatt 420
 aacgcc 426

<210> 5343
 <211> 456
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-017-Q1-E1-H11

<400> 5343

gggtggacgg gtgatacgtat tactggttgt gatatacaaga ttaggagggt gaatgttaga 60
 gctaactctg atatttgat tagcatgttt gagttttgca tgtagtctag tctagtgtgg 120

tgttcgtccg acgaaggctt caggtgagcg cgccaatgag gtgagatgcc aggatgccgt 180
 gtgaggcggc gagcacggcg agatgccgat ggtgctgcgt gagaagcggc aagacgtatc 240
 agaggcaact cgacgtagaa gaaggagcgg cgctgcgagg aggcggcgcc aacaattggc 300
 atcagagcct tgtcgatccg cggaagcgat ggcagcgacg acgacgcggc ggactccatg 360
 ttaagtggaa gacgtcggca cgatgtgggt ggccgtcggc ggcgcgatgc taccggtggc 420
 cggttgcggt gtgatccgc tagattatgg cggtcg 456

<210> 5344
 <211> 467
 <212> DNA
 <213> Triticum aestivum

 <223> unsure at all n locations
 <223> Clone ID: LIB104-017-Q1-E1-H7

 <400> 5344

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 gccggagcag gtgaggagc aagagcttca tcggccggtg caggcaccat gacccatcgg 120
 cagcgatatc agcgtcacag tccttgggag cacaatcgac atattgcaga ggaggtgtga 180
 taagcagttt gccatccacc gtgcaaaaga tccagagctg ctcgggcgga tgatcgacga 240
 cccacccgaa gagacaccct caccagtgtc catcgagagc ctgatgcccc acaaggaatg 300
 ggcagaggac ctctgcgatt cagtcaagat aaaggcagcc tacggcttca tcattgcccc 360
 cggcgtccgt gtcaacctcg attctgatga tgtggtggcc aagctcgagc gcatecttgg 420
 cggagttgac gtccctgacg aagtagaaca tccccaacgt tataacc 467

<210> 5345
 <211> 314
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: LIB104-018-Q1-E1-A11

 <400> 5345

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 aaatcgatag ttatcatctc atcgaaagat cgggacaccc ccgcctctat caagtggat 120
 cagttttcag gttgctcggg gagaatttcg agttttccta gattagattt attttcttac 180

ctattgtcca agaagatgcc acaaagaaga gttagatcta ttcattccttg gtccaagcca 240
gtctgagcct ttgcaatttt cttttcattg cttgcatagt tgatttatcg gttgcatcgt 300
cgtgtccaat tgct 314

<210> 5346
<211> 400
<212> DNA
<213> Triticum aestivum

<223> unsure at all n locations
<223> Clone ID: LIB104-018-Q1-E1-A6

<400> 5346

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ccgcagtctc caagatcctt tcatcgtacc ctgggccagc cagacgcctt gacatccgca 120
tggttcattac caactgcaag gtctaagcca agtacggcga gtgggttctta tcgccctccc 180
ttgatcaact cgaggagctc agctttgaag ctggatgatg tcgctctctg ccgccatccg 240
cgctccgcct cagcccaacg ctgcaccgag ccagcttcag ctcttgctat cttcnccagc 300
cgcgcctgtc cttctttctc ctcaactcaa gcagctcgac ctcttcgaca ttggcatctc 360
gaagcaggct atggagcacc tgctccgcaa ctgtactatg 400

<210> 5347
<211> 414
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-018-Q1-E1-A7

<400> 5347

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gggtgggttgt tttcttatac taacggagct catgagattt tctgtttaag ttttgtgttg 120
tgaagttttc aagcttttgg gtaaataatt gatggatttt ggaacaagga gtggccagag 180
cctgagcttg gggattccca aggcacccca aggtaaaatt caaggacaag caaaggccta 240
agcttgggga ttctctggaa ggcattccct ctttcgtctt cgtctatcgg taaatttact 300
tgaggctata tttttattca ccacatgata tatgttttgc ttggagcgtc ttgtatgatt 360

tgagtctttg ctttttagtt taccacaatc atccttgctg tacactcctt ttgg 414

<210> 5348

<211> 59

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-018-Q1-E1-B12

<400> 5348

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<210> 5349

<211> 440

<212> DNA

<213> Triticum aestivum

<223> unsure at all n locations

<223> Clone ID: LIB104-018-Q1-E1-B2

<400> 5349

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accaggacga gatctgagag gtggtgctga ccaagagccc cgacgcgtcg tgcgccgaga 180

tcgaggagtt ccgcgaccgc gcgcgcgctn cgctcaccag caacaacggc atgaagcagc 240

agggcacccg cttcgccaac cccatcgctt tcttcccca ggagccgcgc aaggagtgcg 300

gcggcatcct ccaggcttac gacctcaagg acgcaccoga gaaacccatg aaccccatcc 360

catccatata gtctcgctca ggttgcttcc atcatcatca tcatcatcgt ctctcatga 420

ctctcctacg tacggtgccc 440

<210> 5350

<211> 149

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-018-Q1-E1-B3

<400> 5350

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atggattgag gctgctctga aggatccaca ctgacgtaca cttgcatgcg acctcatagc 120

acctctatag tgtcagctag gattcaatt

149

<210> 5351
<211> 421
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-018-Q1-E1-B5

<400> 5351

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aacgctctta tattatggga cggaggaggat agcatggaac aatcaaaaat tatagatagc 120
ttggagacgt atcagcatcc ccaagcttaa ttctgctcg tcctcgagta ggtaaagtat 180
aaagaaacag aatttttaat gtggaatgct gctaacaatg ttcattcacat attcttttct 240
ttttagcat ggacatatgg acttttatat ggttcaaagc aatagtctag ttttgaaatg 300
aagatttcaa tactcaagca tatcaacaag caaccatttc tttcagaata tcaacagtaa 360
agaaagttat ctctagccca tcatgctcaa tcattgatcc attcatgaaa cacactcgca 420
t 421

<210> 5352
<211> 413
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-018-Q1-E1-B6

<400> 5352

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gattgatgtc gttccctggg tggtttggcc cttcaattag cataactcatg tgaatgtact 120
tcctcttcat gcacaaccag gggggaaggt tgtacatcca cacaacaca ggccaggtgc 180
tatgtgtgct tctctggctg ccaaattgat tgactccatc ggtgctcgcg cccagcacga 240
tgttcccttg atcgttccca aattctgggt attcgaagtt caacgcttgc cactggctcg 300
cactcttacg gtgactcagc atcttgtctt ttttatctat ctccggatca tttgctcaa 360
cttctcgctt ctccctctcc ctaccgcct gccaacgcag gagctttgct acc 413

<210> 5353
 <211> 398
 <212> DNA
 <213> Triticum aestivum

 <223> unsure at all n locations
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 <400> 5353

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 tgataattgt tcttttagtag attgtatttc cttgttgcaa tctgtgttga attctcctca 120
 tgcttatagt caaaataaag cttttaccaa acatattgtt gatgccttga tgcaatctta 180
 tgatgaaaaa cttaatttgg aagcttctat acctagaaaa cttaatgatg agtgggaacc 240
 tactatagag attaaaatta aagatcatga ctgttatgct ttatgtgatt tgggtgctag 300
 tgtttccaga attcagaaaa ctttatgtga tattcgaggt ttccatgata ttgatgattg 360
 ctctttaaat ttgcaccttg cggattccac cattaataa 398

<210> 5354
 <211> 406
 <212> DNA
 <213> Triticum aestivum

 <223> unsure at all n locations
 <223> Clone ID: LIB104-018-Q1-E1-B8

 <400> 5354

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 ccctctcgga tccacgggcc ttcttgagag aagctccgat ttgcaaaaag cttataccaa 120
 agcttgtccc aattcggcca taaaatttac cacaacatgt tggtgccatg tcatgacacc 180
 atgccaagtt tcatgatttt caagcgtgct ttggatttag atgaattaag aaaccaactc 240
 aatattttcg gtcgagccat aacgcccaga tgtttgaatt tcattctcat ttcatgcatg 300
 ggacctagaa attcacctaa ggacacacat gtgatttttc aaccaacttt ggtgcactgg 360
 agcatgtgct tgtagtttaa atttaaatta tcacattaaa tgacta 406

<210> 5355
 <211> 384
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-018-Q1-E1-C1

<400> 5355

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caaatggaag gtcttgcttt tgatgccag atggtagatc tcattgtcaa ttttatcaaa 120
tctttgccca aatagtgtac tgtaactgtg tgaaagtgcg caaagcgtgt agtgatgaac 180
atcgaaaaca tacgatttgg atagtgcctt catggtttgt attttctcgt gttgtatgtg 240
tacactgggt gttgtgttcg agatagtaat caaatcttag tttccatttc atatgagttt 300
tagactcagt gatgcaagcc gcatggaaaa tcttattgtc atcacgacat tgtaatccaa 360
tcttattatt gtttgtatag ccat 384

<210> 5356

<211> 440

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-018-Q1-E1-C10

<400> 5356

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agaacttcaa agtggataca gtaagtcaca acgacaagtc ttttttcgta attaagcatg 120
acatctgctt catttgcttc aacttatatt ttttactatt ctactagcgt atcccctgcc 180
atgcaagagt ttttgtattg gataagatag gtttcagtca tagtatggag gaaaagaaag 240
tttacttgaa gaccgagcat ggttatattt tccatgcgaa gttatacaat tcagacgact 300
acacctattt tggatgcaaa acatggcgag cactatgcaa gacttatgca attgagccct 360
gataaggggt atcacccctt gaatatccgt cggaagatg atattgaagg taataccgac 420
atctgggtca atgtgcaaat 440

<210> 5357

<211> 330

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-018-Q1-E1-C5

<400> 5357

aattccgggt cgacgggaca cggaagcctg agccctgcaa gagaagacag ccaagaacgc 60
ggcgcatgcc acgcaggggg cgcacgacac cttgaagaac gccgccggct cgatatacta 120
gttcggatcc ggataccggc ccacctgcat attgcatctg ttctgtctgt ctcggaatt 180
gtcatgaagt ggagagatgt tctgatgtag aatttcctg cgatgtggtt gcgcccggct 240
tgtagcacia ttctttcggc gcctccagat cggggccctg ttgttgatgc gtaactcgtg 300
aatctttgac gcaatgagat gcatttcgtc 330

<210> 5358
<211> 358
<212> DNA
<213> Triticum aestivum
<223> Clone ID: LIB104-018-Q1-E1-C6
<400> 5358

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acggtgggtg aacaaattac tggtgagcaa ttgacagaat tgagcatagt tatgagaata 120
tctaggtatg atcatgtata taggcatcac gtctgcctcg aaaaaagac ctgctgctgc 180
cctgttgctt aattataaat gccgttgaag cgatcgagct aagaatcagt gaaagatgac 240
aataagcaat cttggtacac ctctaaatac gtagtcttta tttgttaacg gtgtccctat 300
ttatgacctg tcaaccaaag atttgtgtac tctagtaatg tatgtattat atcaccac 358

<210> 5359
<211> 413
<212> DNA
<213> Triticum aestivum
<223> Clone ID: LIB104-018-Q1-E1-C7
<400> 5359

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gtcttttttc gtaattaagc atggcatttg cttcatttgc ttcaacttat aatttaagca 120
tgacattaag catgacaagt ctttttttac tattctacta gcgtatcccc tgccatgcaa 180
gagtttttgt attggataag ataggtttca gtcgtactat ggaggaaaag aaattttact 240
tgaagaccga gcatggttat attttcaatg taaaattata caattcagac gactacacct 300

atTTTggttg caaaacatgg cgagcactat gcaagactta tgcatttgag cctgatatgg 360
 ttatcacctt tgatattcgt ctaaaagatg atattgaagg taataccgac atc 413

<210> 5360
 <211> 325
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-018-Q1-E1-C8
 <400> 5360

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 caggagttct tgtagaacat gttccagtca aacctcgttc ccttcgtctc cggttttcaa 120
 taccaacacc tgatcatctc gtctcccatc gtttggatgg aatagccaca tggagctgac 180
 cttcacttta cagagacagg ggcaagccga taattttagt cctccctggt tgtattctgg 240
 aaatttcagt agaactgaat ccctgtagga gctcactaaa gactctagct aagacctttt 300
 tgagacgctg ggtgactcgc gtgga 325

<210> 5361
 <211> 365
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-018-Q1-E1-D5
 <400> 5361

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 tgcattgttg tatcgcgacc tgaatgaaat aaacgaaata atgctcttgt tcacaaaaaa 120
 aaaaaaaaaa aaaaaaaaaa aaaaaaccaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 180
 ccggccgccc aaaaggttca agcctaactt acccttcaag gcaagttaaa acccctccaa 240
 aatttcaacc aaaatcaatt taatggccct ccttttaaaa acttcttaat gggaaaaacc 300
 ctgcgttaac caaactaaac ccctttgaaa aaaatcccca tttcccaagc gggctaaaaa 360
 caaaa 365

<210> 5362
 <211> 345

<212> DNA
 <213> Triticum aestivum

 <223> Clone ID: LIB104-018-Q1-E1-D8

 <400> 5362

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 gcattgagac gcagacaaat ccaattgac gttctatagc actcttactt tttcatcagc 120
 catcagacca agtggctgga gctgttgaca atcctcgcca ctaaaatctc ataacgagaa 180
 ccacaaggcc tatgctaaaa actaggttgg ttaatgttgc gaaaattact ggagatggct 240
 cgtggagatt caaggatcgc ctagtcatat attgtaatca tcatctccgt gaatgcatga 300
 gcaatcgtga atgtttatcc gatatggtac ggtacgttcc gtttt 345

<210> 5363
 <211> 436
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: LIB104-018-Q1-E1-E10

 <400> 5363

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 gaaaatgcga tgctgaagca acaattggaa cattatgaga ataaatgggc agaataatgag 120
 accaagatga aagttatgga agaggcatgg aagaaacagc tctcttctct gcagttgagt 180
 cttgtggctg ctaagaagag cctagctgct gatgacatgg tcacccgagc agctcggact 240
 gataccactc caacgcatgc tcaatacgac tctgaagata caatgtccac agggacccat 300
 acctcagacg ggacagagtt gaaataccag aaccaaattc cctaagctaa aatgggcaac 360
 gggaaactca aataggcggg ataaatgcgg tgaatcacct atcaaaggag tttgaggaca 420
 ggcgacaggt attcga 436

<210> 5364
 <211> 440
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: LIB104-018-Q1-E1-E11

 <400> 5364

attcccgggc cgacgggaga aagtatgcaa tagattgaat aaatagatag caaataaaat 60
aaagtgcagc aaagtatattt tggtttaata gatctgaaaa taaatacaag aaaaagtaga 120
tcgcaaaggc aaatatatga gaaagagacc cgggcgccat aggtttcact agtggcttct 180
ctcgagaaaa atagcaaacg gtgggtgaac atcaaatact catgacgata tccaggcaat 240
gatcatatag gcatcacgtc caagattagt agaccgactc cttcctgcat ctactactat 300
tactccacac atcgactgct atccagcatg catctaatac aataagttca aggaaaaatt 360
ggagtattgc attaggaacg atgacatgat gtaacaaga tctatctatg tagagatgga 420
cccatcggtt ttatccttag 440

<210> 5365
<211> 349
<212> DNA
<213> Triticum aestivum
<223> Clone ID: LIB104-018-Q1-E1-E9
<400> 5365

tcccgggtcg acggggattt taaccatgat agcgtggctc gccgtgcatt gaaaaataca 60
tgtctcgctt atcttgcac cctgaatgag cgagatgtca ctgaacttgc attaactgag 120
tacaagtctg ctacgatcat gaccgagcag tttgctgcat tagcagcatt gtctcaaaat 180
ccagggtcaag tccgtgagga tgcccttttg gacttctata acaaattggct acaagattat 240
ttggttgtaa gcaagtgggt tgctcttcaa gctacctcgg acattcctgg aaatgtagtc 300
catgttcaaa agtgactggc tcaacctgct ttgacatgc cgaatccgg 349

<210> 5366
<211> 421
<212> DNA
<213> Triticum aestivum
<223> Clone ID: LIB104-018-Q1-E1-F7
<400> 5366

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gcatgtgtca taaccttttg gtttggataa tttatcattt ttcttataaa attccctctc 120
attattgaac tacaattagt tacatcatct atctagtaag agacgaatga gttcaacagg 180

aagttagtagc aatatggggcc cttggacatt aatttgcgct agtcatggg caacctcatt 240
 tgattctcta aagtaatgca cacaattagt actaggaaag tcacaagcta gatggtagca 300
 atcagccaca accgcagttg caggttccat tgatctccct ctttcttttt ttttgcgga 360
 ccattgatct cctccatca ttcattgagt ttactagttc aaattatccg aatttacaa 420
 a 421

<210> 5367
 <211> 363
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-018-Q1-E1-G7
 <400> 5367

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 taccaccata atcagtggct gcgttcatgg gcatattcac cagcgcggcg taccgctata 120
 gctgacagaa agtgtgcttt ctcagcatga agataatata atgggaagga atattgcgtc 180
 aagaagaacg atcgggtaga gcttatcacg gcaagctaca ggtcgtacct agcagacaag 240
 cattgtctca tgaaagttaa cttttttag atgtacaaat tgatgtagaa taggtgaatt 300
 taatttcac tatacatgat caattgcttg ctgtacattt gactaaataa agcaataaat 360
 cag 363

<210> 5368
 <211> 417
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-019-Q1-E1-A10
 <400> 5368

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 agaaagctct tagatgatga aaagaaacc gatatcacga aacgaccaca cgctcctatt 120
 gaagatgagg tggaatgcaa gaagccaaag atagcagaag gctcaagggtg ccaaggagaa 180
 gaacctgagg ctggagggat aaagaattcc tcctgggtct gatgacaggg gaatgcagta 240
 aacaccagaa gcatcaaaac tatgatctgg aacagtatcc tgaataaact attttctgga 300

ttatgaatga attctgaagc atgggggctat aagtgaatta tgtaacatgg atttgtaact 360
atggtggatg ttaaagttaa cgttctatca gtacatcgtg aatgcgtgct gaatatg 417

<210> 5369
<211> 182
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-019-Q1-E1-A11

<400> 5369

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aaataaaaaa acaaacaca aaaaaaaaaa aaaaaaaaaa agcgcccact caaaaggatc 120
gaagcttact tacccttgca tgcaacttca tgccactgca acattgtcac ctaacttcag 180
tt 182

<210> 5370
<211> 424
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-019-Q1-E1-A2

<400> 5370

ggtccagaaa tcccgggtcg acggggggct gaaagagggtt ttatatcacc ctttctggga 60
acaactgatg catcagccag atataacctg gacaaaaagg ctttcttctc ttcagcactt 120
tctttgcgcg tgccagtatc tgaggatttc ttgagtaact gaagtactga ttgcagtgtc 180
tcaatctttt caggatttat ccctggggag caacgatggt tccagaagtc aacttccttg 240
tcacggtgcc atgcacttcg tctccttctt gtggacgatg catacaactt cttggtcaga 300
ttctcacgta tcttgccctt ttgaagcagt gacttccttg cgagtgaaag gttgggtttt 360
ttggctggtc catccatgga cttcccaatt gctgaacgga atgcggtcaa aagtttttcg 420
tcaa 424

<210> 5371
<211> 362
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-019-Q1-E1-A5

<400> 5371

gacgggcaaa tcgaaagaac aacaaaggac cggaagaac ggtcagtcgt cgccgaacgg 60
gatcatgatac acgagaaata tctatatacg ataataaggt tgtgttattg ccgccatgtc 120
cggtgacctg atgtttgttt cagctagaga aatcgtaag cccgctcata atttttcgac 180
gccatggaaa ataataacta ctggtatata actctataac aaaccggctt gtgaaataaa 240
tggttgcgcc ccggtttttt gtcgtcaaaa aaaatgaaca aaggagttgt aaaaagccaa 300
aaacttgcca aagcgcataa tataccaacg ggctgttcta aaggatccaa gcttaagtac 360
gc 362

<210> 5372

<211> 393

<212> DNA

<213> Triticum aestivum

<223> unsure at all n locations

<223> Clone ID: LIB104-019-Q1-E1-A6

<400> 5372

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gaagaagact ctctcccgga ggaggaggag aggaagagga aggcttcccc aatangggag 120
gctgaagggt ccaagagggg gagaactatt ccccggaaca gctctgcca caccaatgtt 180
ggcgaggagg agtgcccttc aagggccagg cctcctgcca gatcgtaagt atccggatcc 240
ctgtatatcc taaaatttct ttcgtgccac atagtgcctt tctaattgcc catagtatcc 300
gcagtccggc cgatgatgat ctecccgctt ttctgagcgg gtcgttggcc ccgtcggatg 360
tggaattcact tccgacggcc tctactcccc gcg 393

<210> 5373

<211> 424

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-019-Q1-E1-A8

<400> 5373

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aagagaaggt cgtgtgagcg gccccggcaa agaggacgat ggcgctgatg aagcgagatg 120
acgtgatgca aggctcttgg tccatcgccg tggatgagaa acgtccatct ctagcagtgg 180
acgacgcggt cttggtaggc gctccagcat ggtggaggat ggtggcgatg gatgtagtgg 240
aggacggcgg cgatggatgt ggtggaggac ggcggcgatg gatggggtgg cggacgaagg 300
ctggtgtggg gatggtgttc tagcgcggaat ggtgtatgaa tgggaaaatg gatggacagg 360
tacggtgaac catgtttttg gacgcacctg tatgaaatat gggaaagtta cgaacttagc 420
cccc 424

<210> 5374
<211> 447
<212> DNA
<213> Triticum aestivum
<223> Clone ID: LIB104-019-Q1-E1-B10
<400> 5374

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tatgtgaaat taattgaagc gggaccaaac aaagcggacg aaaccaagaa catcacctcc 120
ctttaatagt aggtatagat ataggtttag agagatgaca ggaattgctc atccacatgg 180
ttagtcgtaa aatcctacat aaaacttgta gatcactgaa tatgatatgt ttgattcctt 240
gcaatagatt tgcgatataa aggtggtgat attagagtca tgctagttag tgactatgga 300
ttagtagaaa tacttgtgtt gaggtttgtg attcccgaac catgcacgta tggatgaaccg 360
ttatgtgatg aagtcggagc atgacttatt ttttgatttt catcctttgt gtggaggtcg 420
ggattgtgcg atggttaact cctacca 447

<210> 5375
<211> 461
<212> DNA
<213> Triticum aestivum
<223> Clone ID: LIB104-019-Q1-E1-B11
<400> 5375

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tttagtagtt gcggatgctt gctaggggtc caatcataag tgcataatgat ccaggtagag 120
 aaagtatggt agctcatgcc tctccctcat atagaattgc aagaatgatt accggtactt 180
 gttatcgatt gcctagggac aaatgacttt cttggtgaca aaatccatct acttttactt 240
 tcccgaatt tattcatagt tttattctcg caaagtactc gtagtttatt cttgcaaaat 300
 agttcatact tgttctaggt aaagcagaca tcaagtgtgc gtagagttgt atcgggtggc 360
 gatagaactt gatggaatat ttgttctgcc tttagctcct cgttggggtc gacactctta 420
 tttatcaaag aaggctacaa aagatcccct atacttgtgg g 461

<210> 5376
 <211> 457
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-019-Q1-E1-B12
 <400> 5376

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 aagtgcagc agatggcacg ataaaagact ggtgattatt atccatttcg tagggctagt 120
 acgaggggaat gggagatccc gtcgtgttta gctctcactg tgctgccctc gacatatctt 180
 gtttttggag atctcccttg tcatttatac cttagatcaa ttttgtttgg tgaattgaga 240
 tgttgcttgt tcgagtaaat acgatgacac acttctgaca cttccatctt acaatgggaa 300
 ttgagctgtt gcttgtacaa ctttgttcca tggaacaaat gtaactgtgt tccatgttac 360
 aatgggagtt gagctgttgc ttgcaaaaaa cattaactcc acaatgagaa caacactctt 420
 aattaacaaa aaaagctaca aaatattccc caatacc 457

<210> 5377
 <211> 449
 <212> DNA
 <213> Triticum aestivum
 <223> unsure at all n locations
 <223> Clone ID: LIB104-019-Q1-E1-B2
 <400> 5377

ggtccagaaa tcccgggtcg acggggactt gaagctggcc cagatatgcg gcaccatcgc 60
 ggctgacgaa aggcgccatg agcttgcccta taccaagata gtggagaagc tcttcgtggt 120

cgatccccgac tacacgggtcc tggccttcgc cagcattatg aagaacaaga tcacgatgcc 180
 tgcccacctg atgtatgatg ggcaggagga caacctcttt gagcacttca gcgcgggtggc 240
 acagaggctg ggcgtttaca ccgccatgga ctacgccgac atcctcgagt tcctgggtcaa 300
 gaggtggaac gtgcgccggc tcaactgggtt gtccggtgaa ggcgcgcgcg ctcaggatta 360
 cctatgctcc ctaggaccaa ggtttangaa gctgggtggag cgagctcagg ggagcgggaa 420
 gcagttgcct gttgttcctt tcagctgga 449

<210> 5378
 <211> 441
 <212> DNA
 <213> Triticum aestivum
 <223> unsure at all n locations
 <223> Clone ID: LIB104-019-Q1-E1-B6
 <400> 5378

ggtaccggac cagaattcgc ggtcgcacgg ggacttgaag ctggcccaga tatgcggcac 60
 catcgcggct gacgaaaggc gccatgagct tgcctatacc aagatagtgg agaagctctt 120
 cgcggtcgat cccgactaca cggtcctggc cttcgccagc attatgaaga ggaagatcac 180
 gatgcctgcc cacctgatgt atgatgggca ggaggacaac ctctttgagc acttcagcgc 240
 ggtggcacag aggctgggcg ttacaccgc catggactac gccgacatcc tcgagttcct 300
 ggtcaagagg tggaacgtcg ccggcctcac tgggttgtcc ggtgaagggc gcgcgcgtca 360
 ggattaccta tgctccctaa ggacaagggt tangaagctg gtggagcgag ctcaaggag 420
 cgggaagcag ttgccctgtg t 441

<210> 5379
 <211> 203
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-019-Q1-E1-B8
 <400> 5379

taccggacca gaattcgcgg gtcgacgggt ggtaagaaga gtttttgcag taactggggg 60
 tgaaaggaga aaaccaaaga agaatgtgta catataccta cggcttggat gattgggttg 120

tgaaatggag atattgttgg ttaattgatt tagtgctgaa aaaaaaaaag aattttaaaa 180
 aaaaaaaagc gggcgctcca aaa 203

<210> 5380
 <211> 448
 <212> DNA
 <213> Triticum aestivum
 <223> unsure at all n locations
 <223> Clone ID: LIB104-019-Q1-E1-C1
 <400> 5380

cggtcctaga atccccgggtc gacggggctg gtgatcaccg ggtggggcgcc gcagctggag 60
 atcctagcgc acagcgccac ggcgggcgttc atgagccact gtggctggaa ctcgaccatg 120
 gagagcatga gccacggcaa gccgattctg gcatggccca tgcactgcga ccagccgtgg 180
 gacgcggagc ttgtctgcaa ctacctcaag gccggcgctcc tcgtgcggcc atgggagaag 240
 cacggcgagg tggtcacggc gaaggccata caggaagtca tcgaggaggc catgctctcc 300
 gacaaaggaa tggccatgcg gcaacgggca agtgcgctcg gggaggccgt ccgcgcctcc 360
 gtggttgacg gcggttcgtc gcgcaaggac ctagatgatt tcactgctta catcacaagg 420
 tgatcgacan aatgccatcc tggacgat 448

<210> 5381
 <211> 448
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-019-Q1-E1-C3
 <400> 5381

cggtcagaa atccccgggtc gacggggttc agtctcttat gatactccca catattctga 60
 tatgaagaag acattttgcg ttaatatgtg agcagttagt ggactttttc aatgccagga 120
 agttcaggat acgaatggct taagggctgg ttaaaatgat gagttcactc aggacgctac 180
 tgaagattac tatgaaggag gaacatatgc ttgtaagaat tgcactaatg tcaagtttcc 240
 gctctatgtg cttaacgttt tgacgttatg catgtgttcc ctccctatgc tacttgattt 300
 ttgttcccct aagttgtttg ctcaaaaat cactattcat atgaagtggg ttaggcttaa 360
 atgtgctact aatatgcttc atgatgctct cattctgtct caattcgtat cgtttatgcg 420

agcatcattg aaatcatcat gccttagc

448

<210> 5382

<211> 423

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-019-Q1-E1-C4

<400> 5382

ccggtcctag aatccccggg cgacgggagc tggatcctgc ccggcaacga ggagtacaaa 60
ggtgtatgga atcacgcgaa gagtgatggc catgaatact aaggctctcca tgtagcgag 120
ccagccagga aatatgccat aatcaaggaa cttgactatc cagttactat gaaggatgag 180
acagttgtcc tgcagtttga attgaggctt cacaatggcc ttgagtgtcg acgtgcttat 240
atcaagtata tccgtcctca cgcgaccgga tggaacacca aggactttga cagtgatact 300
ccatacacia ttatgttttg tcccgacaag tgtgggttcaa cgaacaaggc tcacttcac 360
ctgaagcaca cgaaccctaa gactggcata tacgttgaac atcatctcaa gtccacact 420
ctg 423

<210> 5383

<211> 426

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-019-Q1-E1-C5

<400> 5383

taccgatcca gaattcccgg gtcgacggga cctaagtggg ggttttattt tcttatacta 60
acggagctta cgagttttgt ttgagttttg tgtgggtgaa gttttgaagt tttgggtaga 120
gattcgatgg actatggagt aaggagtggg aagagcctaa gcttgggaat gcccaaggca 180
ccccaaggta atattaaagg acagccaaga gcctaagctt ggggatgccc cggaaggcat 240
cccctctttc gtcttcgttc atcggttaact tgactttgag ctatatTTTT attcaccaca 300
tgatatgtgt tatgcttgga gagtcatttt cttttgtag cttttgcttg ctgttagttg 360
taataatgtg tttcatcggt actttcagta tacatgacaa cgataccctt tgccatgctt 420
actttg 426

<210> 5384
 <211> 251
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-019-Q1-E1-C7

<400> 5384

tacaactcac tataatgagt cgtattaagt cgacgggggtt gaattcagtt aattgtaatc 60
 aatacaagtg tgatgatcat catatatata gcattgccca cattaaaaaa aaggaaaaat 120
 gccaaattca atgaaggccc aaataaaaaa ttacaataaa gaaagaataa gcggccgctc 180
 taaaggatcc aaacttacgt acacgtccat gcgacctcat agctcttcta taatgtcacc 240
 taaattcaac t 251

<210> 5385
 <211> 448
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-019-Q1-E1-C8

<400> 5385

gtaccggacc agaattcccg ggtcgacggg ttgatcctgc tgaaaatcag aaacttttgc 60
 acccaataaa ttagtttttg taatccaaag aaacgtgatt ttgatatgat gctttttgat 120
 atgtactggt acacaagtgg tttaggtttt cgcaatttat caggatttgt ggagttacag 180
 aagtattcta gagttacagt ttactacaga cagttatggt tctgacatat tctgcattct 240
 atgtgttggt tgcttatatt gatgaatcca tgagtaatat gggagggtat gaaccataga 300
 gaagttggaa tacagtaa atttcacaaa tatgaattta gaatgagttc ataacagtac 360
 ctaagtgggtg atttattttt ttatactaac ggagcttacg agttttctgt taagttttgt 420
 gttgtgacgt tttcaagttt tgggtaaa 448

<210> 5386
 <211> 460
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-019-Q1-E1-C9

<400> 5386

taccgatccc aaattcgcg gtcgacgggg cctgggtgga cgtgccgccc atgcgccacg 60
ccatcgctgt caacatcggc gaccagctgg aggtgatcac caacgggcgg tacaagagcg 120
tgatgcaccg cgtgctcacc cgccacgacg gcaaccgcat gtccatcgcc tccttctaca 180
accccggggc cgacgccgtc atattcccgg ccccgggcgt cgtgggcgt gccgacgctg 240
ctgagaggaa cgagggcgag gagggcaccg ccgtataccc aaggttcgtg ttcgaggact 300
acatgaacct gtacgtgccc cacaagtctg aggccaagga gccacggttc acggccatga 360
aggcagacgc cgcacccatc gccaccgcat gataactgat acgcgcccgg acccgacga 420
gagtattgtg agacgtgttt tattttcttt tgggcgtgcc 460

<210> 5387

<211> 446

<212> DNA

<213> Triticum aestivum

<223> unsure at all n locations

<223> Clone ID: LIB104-019-Q1-E1-D10

<400> 5387

gtaccgatcc taaattccc ggtcgacggg gtcgattgct gacctgacaa ttaaactgtg 60
aaagaagggt gtagcttcaa gtaatggtac atcagttcaa gaagctgaac agcgtacaat 120
tgaaagcata tgtaatcagg acaagacagc agcctcgctt atatgccagc tcaagaaacg 180
tcattccaca caaatatcaa caatgccaat gatgaaagat gtccttggtg ttgtggctac 240
cttaggaaaa acaaatgatg ataactaag cagcctactc tcagagtact tgggaataga 300
caatatgctt ggtctcggtt gcaagactta tgatggcata aagagtcttg aaacatatgg 360
cacagaaggc aacattgata agaaaagtgg tattcatgga ctgggtggct caattggnaa 420
gattctgcat gggaggttta cgtgtt 446

<210> 5388

<211> 452

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-019-Q1-E1-D11

<400> 5388

gtaccgatcc ggaattcccg ggtcgacggg tgccaacaca aatgggtcaa tggtcattgc 60

cactcacagg cgtcacctgc ttgatggtcg aagacgaggg aagggcgaca acatctaaaa 120

ctccgcgttc cacgacgccg agaggtaggc tctctgacgc atgacaaggc tccacggggg 180

cttggtgatg ccagggtccac ctccgaatcc tgaagagacc ccaacttgag ctgctccatc 240

gatagagggtg aaacagatac cacaatacat gcacacaccc aaggcagaat acatgagctg 300

aagattagca acaacgcccc atacaagtcc aagcaaagca cctcgctcgt caccttctat 360

atacataaat attatagagg ttgtaataca gagaatctga aatagctctt cacaccaaaa 420

ccttttaaaa tagttttgtt accttttttt gc 452

<210> 5389

<211> 436

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-019-Q1-E1-D12

<400> 5389

attccccgggt cgactgtacg gacaccgaag ccttagaagc tttcaagcat agcgttcgag 60

acgaatgggt tgccatacac ctcggtcaag aaaagccgag aacaatggta gcattaacaa 120

gcctcatgac ccgtttttgc gcgggagagg acagctgggt agcccgatgc ggcaccagcg 180

actcaagtac atccgaagtc agggatggaa acgggaaatc atgacgcagc aagaataagc 240

gctagaataa agaagacagc ccgaagagca ggacggtaaa cgccggattt agaagctctc 300

ggctaggcca gcagaagccg ccctccaaag gcaacagaga tgaactgtcc agcctaaaca 360

aaattctgga ccaaatatgt tagatccata gcatecctga taaacctgca tatcataccc 420

acagagaatg ttgggt 436

<210> 5390

<211> 440

<212> DNA

<213> Triticum aestivum

<223> unsure at all n locations

<223> Clone ID: LIB104-019-Q1-E1-D2

<400> 5390

ggtccagaat tccccgggtcg acggggccta gctaggggcg ttaaagcata gcgcttggtg 60
 ggaggcaacc caattttatt ttgtgttttt tgtttttgct tatgtttagt aataaataat 120
 ccatctacct tctgtttgga tgtgggtttta tgttttaatt agtgtttggtg ccaagtagga 180
 cctatangat aacctacgat gatagttgat ttgattctgc tgaaaaacag aaactttgcg 240
 tgcacgaata taattatgat aaattacagg aacgtgattt tgcgttgatt attttttctg 300
 ctgatcaata aacaaattgt acagaacttc ctattttggt agaattttta gagttccaga 360
 agtttgcggt agttacagat tgctacagac tgttctgttt ttgacagatt ctgtttttcg 420
 tgtgttggtt gcttattttg 440

<210> 5391
 <211> 448
 <212> DNA
 <213> Triticum aestivum

 <223> unsure at all n locations
 <223> Clone ID: LIB104-019-Q1-E1-D4

 <400> 5391

accggtccag aaatccccggg tcgacgggga aggagaagaa gctcaagtca aaaaagcaca 60
 ggaggcgaag ctattcttcc tcagaatctg acagtgaatc cgagagcgac agcgatcgga 120
 aacacaggaa gaggaatgac cgcagaatgc acangaaaca tggccactct gactctgatg 180
 gtgccaggag gcgcaagcac aggtcaaaga ggaggagctc agactctagc gatgagagcg 240
 acagtgatga atatgatagc gaatctgaag aagagcgccg aaggaagaag cactcgcaca 300
 ggaggaagca tcgccgtcac tcttcaaggt cagagtctga tgcttcagat tacagcagcg 360
 atgatgatga gcgaaggatc accaggaagg aacacactan gagccggatg caccgccacc 420
 gatcatcaga cgatgaatcc gangacaa 448

<210> 5392
 <211> 406
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: LIB104-019-Q1-E1-D7

 <400> 5392

aattcgcggg tcgacggggg tatgagatag tccttggttg atttatataa tgctctttgc 60
 acttcacttt atcttgtgag tatggcttta tagaatgctt catgtacttc acttatatca 120
 tttgaagttt ggaattgcct gtttctcttc acttacacaa ccgccatttg tagaatgctc 180
 tttttattcg cttatatattg ttacagcatg gacatatctt ttgtagagag aattatactc 240
 tcttgcttca cttatatcta tttagagaga cgacaggaac tagccattca tatggttagt 300
 catataatcc tacatacaac ttgtagatca ttgaatatga tatgtctgat tccttgcaat 360
 agttttgcga tataaagatg gtgctactag agtcatgcta ctcggt 406

<210> 5393
 <211> 448
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-019-Q1-E1-D9
 <400> 5393

gtaccgatcc agaattcccg ggctcgacgg gcatgatata tttattgatt gtcttcctta 60
 tgtgtggagg tcgggatcac gcgatggtta actcctacca acccttcccc taggagcatg 120
 tgtgtagtac tttgttttga tgactttagt atttttgcaa taagtatgtg agttctttat 180
 gaataatgtt gagtccatgg attatacgca ctctcaccct tccaccattg ccagcctctc 240
 tagtaccgcg caactttcgc tgggtgcatta caccacccat ataccttccct caaaatagcc 300
 accataccta cctattatgg catttccata gccattccga gatatattgc catgcaactt 360
 tccaccgctt catttatgac acgctccatc attgtcatat tgctttgcat gatcatgtag 420
 ttgacatcgt atttgtggca aagccaac 448

<210> 5394
 <211> 430
 <212> DNA
 <213> Triticum aestivum
 <223> unsure at all n locations
 <223> Clone ID: LIB104-019-Q1-E1-E1
 <400> 5394

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 cgcgtcctgt atctgccagc ccttcgtagg tcctggggcg tataagtaca tttatatagc 120

acctaggttag taaaacagat ggtctagccg atgtctactt ctagtcctat ctcaaattatt 180
 ttctttttctc tctcttccat ctgtttctct tttctgagat gagaaaataa aaaccttcag 240
 cagtgtctagg ccggcccaac tctccttgtc tctctctctc tctccctagt ttttcctcca 300
 gccagctgg gctaccagc gcctgccggc ccatccccta accaaggccc gcctaaaccc 360
 ttctaaacct agctgcacag gagccatcgc tccatcncct cacagccact cgatcccaac 420
 tctttgccgc 430

<210> 5395
 <211> 441
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-019-Q1-E1-E10

<400> 5395

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 acccaataaa ttagtttttg taatccaaag aaacgtgatt ttgatatgat gctttttgat 120
 atgtactgtt acacaagtgg tttaggtttt cgcaatttat caggatttgt ggagttacag 180
 aagtattcta gagttacagt ttactacaga cagttatggt tctgacatat tctgcattct 240
 atgtgttggt tgcttatttt gatgaatcca tgagtaatat gggaggggtat gaaccataga 300
 gaagttggaa tacagtaaatt atttcacaaa tatgaattta gaatgagttc ataacagtac 360
 ctaagtgggtg atttattttc ttatactaac ggagcttacg agttttctgt taagttttgt 420
 gttgtgacgt tttcaagttt t 441

<210> 5396
 <211> 324
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-019-Q1-E1-E11

<400> 5396

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 ggcgccggtg cgccggcgga aactttgggc cggtcctttt taaaccatta gattaatgcg 120
 ctgatgagcg ttagataacc acgcccaggt catcgtctcc acgcacaaat tctccctacg 180

cggaaaaaagt ggatcgtgaa cgaagtgcgg cccacacgca ccagctgttg tgccaccggg 240
 cgtgcgtcgc cagctccaac accatcagcc cccatcgtcg ccgtcacaga cctccggcat 300
 cacgggttcg catcacctca tcgc 324

<210> 5397
 <211> 462
 <212> DNA
 <213> Triticum aestivum
 <223> unsure at all n locations
 <223> Clone ID: LIB104-019-Q1-E1-E12
 <400> 5397

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 gtccgtcagc cattggtgaa taagcaaact gctaccgatc ccagggtgcc caatcttgac 120
 taccgtccaa tcaggaacga tgcattggagc caaagaatga gagacaagta tggggtggat 180
 tcctttgatc caaacagggt tcaacaggcg acgatatctc ccgcagaaca tagaaacaga 240
 tgcacaatcc tctgatgctt ggtcgatgca gttcagtacc ggtctccgaa ttacagcca 300
 gctgtgcaat aacatcgact cgcattgtagc atgtggctgg gtgatctgat gtttccaagt 360
 tgtgttgatg gtggcgagcc cttgcaatcg cccgtcgtag ttctttcagt tacataactca 420
 gaaatctctg catctttcag tctttgcaat aattgaaact aa 462

<210> 5398
 <211> 439
 <212> DNA
 <213> Triticum aestivum
 <223> unsure at all n locations
 <223> Clone ID: LIB104-019-Q1-E1-E2
 <400> 5398

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 tggttgatcg atatcattca ttacatgttg ggctgccgtt ttccgccctt ctccggaata 120
 aacgtgtact ttatcagaga taaaaaaaaat aagagtacag acgctccacc atgcggttct 180
 agtagtagta ctactcgtac taccgcgctt ggctctttgc ctcttcgtga agtcgaacaa 240
 tgatggtact ccgatgttg ggtactacag tgtatgcctc tgacaatctg acaccgaatg 300

gactgatgca tgtccaccga gggtaggttg cattagtcaa aaggcgtaag cgagcttcac 360
 cttgtcctgc aagcttctcc tcgttctgcg agttgacggg acacaccana aagtagtgct 420
 agtccatact ccttccttt 439

<210> 5399
 <211> 436
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-019-Q1-E1-E6
 <400> 5399

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 ggtcttcctt ggcagtagca ctttgcaaaa aggatcctta gtcagttgca acccttaatt 120
 aagtactcca acttagcata agctctgttc ccagtcctta ggtagaatac atcaccgagt 180
 gttggccaag gacatgtttc tttgcttttc tttctcttta caagtcattg tcctctgatt 240
 tactccaact attttcacca acgcctgctg gagatgttgg atgatgtagc tgacactgct 300
 gtgtgttggg gctctattct ttgggtagag atgtgttgcc tgcttgaggg atgcttgaag 360
 cagagtatcc cggagactag cagatatgat gatcgaaact tttatcttag ctttctgtct 420
 ctactacttc ctgatg 436

<210> 5400
 <211> 425
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-019-Q1-E1-E8
 <400> 5400

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 tacgtcagta ggtgaaacaa tatctagcca atattttgat gacttgtact ggccattctc 120
 catcccaact ccttcaccta cattatcaaa ttcattcattg tcgtccctct tattggggtt 180
 gtacagcaca ccttccatgt tcaacctttc cattaccatc taaaaacaca aatgaaacac 240
 gataagtagt tgaacaatta aaccatgttc aatacaactt ctaaattacc tgtgcacatc 300
 tttgggggtat attgagaacc tctttgtgaa gcagctttat gtatgtcatc acacgggtcca 360

tactacaagt catgttcgat gaaaccgtgg acgtgcttgg ctttctactc ctgacaccac 420
ctttc 425

<210> 5401
<211> 449
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-019-Q1-E1-F10

<400> 5401

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ttgccaatga tgtggtgtct cccaaccat ggttgaattg gccggttccc atatggatca 120
ctccaagttt taataagatc cacaaataac taggtttcca gtataaggac gttactggga 180
agggaatgct cttgcttctc atcaataatt tactacagaa ctattctgac tggacatata 240
cgttgagctg ttgtttttgt tagggcaagc aagcagaaag aattaattta tctggtggtc 300
agcctggcga aggatttggg aaaatgttcc ctaggggaag gagaaaataa tgtttatggt 360
ggctgaaatc gaagttgctc tgcgaagaag accagatatc agtggaataa gaatgctctt 420
gcttctcatc aataatttac tccagaact 449

<210> 5402
<211> 402
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-019-Q1-E1-F11

<400> 5402

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accaggggag acgtaggatg ggagttcgac caaggcgaac tgatatggag gatagtgtac 120
ggcgaactgt ctatgtctca gacattgatc aacatgtcac tgaacagaag cttgctgagg 180
ttttctcaaa ctgtggtcaa gtggtagatt gccgtatctg tggatgatcca aactcagtga 240
tgcgttttgc ttttatcgag ttcgccgatg atgtcgggtg aagagcagct ctaacgcttg 300
gtggaaccat tcttggtttt tatcctgtca gagtctgcc atctaagact gcaattttgc 360
ctgtgaaccc caaatttctt cctcgaacat aggacgagaa ag 402

<210> 5403
 <211> 435
 <212> DNA
 <213> *Triticum aestivum*

 <223> Clone ID: LIB104-019-Q1-E1-F4

 <400> 5403

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ctctctgctg ctagctcagc ttgtgatcac atccgtgact gggttctggg aacccttgag  120
ggaacatttg tttccatggg tgtgtactct gatggttcat acggtgtgcc tgetggtctt  180
atctactcct tcccagtaac gtgcagtggg ggtgaatgga caattgttca aggtctcccg  240
atcgatgagt tctcgaggaa gaagatggat gcgaccgcc aggagctgtc ggaggagaag  300
gcgctggcct actcatgcct cgcgtaaatc cacattggaa gggcagctgc tcctctggat  360
gttttgaata aatgaaacct tccgctcctt agaaactctc gtctcccacc agaacagccg  420
cacatcgcca tgcatt                                     435
  
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<210> 5404
 <211> 450
 <212> DNA
 <213> *Triticum aestivum*

 <223> unsure at all n locations
 <223> Clone ID: LIB104-019-Q1-E1-F5

 <400> 5404

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gctcgagtgc tgggactcga acttggcctt gagctgctcc tcctcggcct tcagaagcca  180
gacctgctcc atgtgccggg ttgcttggtc cgccagctcc gtctcgagcc ggtcgcgcgc  240
catggctgcc tggtgcatt ccagctcctt agcctggagt tggctctcga gctcatgcac  300
gcggtgcctc agccggggcg cgacctctgc aaaagcaagc aagaatcatc aacatctaca  360
tcagcgaaaa caagaagctt tcagagaaga ttctgcctga ctactcaaca gtcggcccga  420
atctcggngg gctacaccag ttggtgcgct                                     450
  
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<210> 5405
 <211> 448
 <212> DNA
 <213> Triticum aestivum

 <223> unsure at all n locations
 <223> Clone ID: LIB104-019-Q1-E1-F7

 <400> 5405

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 aaactcagtgt gtgaaacaac tgttcaaaat gctgttacag aagtcgctgc catgggttggg 120
 gagaatgtaa aactcagacg aggtttcatg ttgtccacga ctggacatgg tgtcgtttca 180
 tcttatctgc atacctgtcc tcagccaggt ttgggcccga ttgctggatt gattacatta 240
 gaagcagaag atagcagtgc ttcccttgat gctctcaaga gagttgggtc gtctatcgca 300
 atgcatattg ttgcagcaaa accattattc ttatcaaaag aattggtttc tgctgcagct 360
 ttagaaaatg aacgtgacgt gtcgccgaact caggctgaaa gttcaggtaa accccaaatg 420
 gccatagaga anatggtgga aggccgat 448

<210> 5406
 <211> 423
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: LIB104-019-Q1-E1-F9

 <400> 5406

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 atttgcgtgc caaaaagttc tctcacgtca cttttggccc aagagaagat agagtccaag 180
 tctctcacgt tctggattca gattcggact gcacagacac acctgactca aaacgcacac 240
 aagtgtttca tacggactcc gaattgggtg attctatattt tgttggaac tagatttcgt 300
 gaactttcca acccaattgg aatcaccttc aaattcgtcc ggagcgttga gttgtggacg 360
 aaacaatgtg atgctgcagc agaatccgag tcaaactaca agtccaaagg tgtaacatca 420
 cct 423

<210> 5407
 <211> 279
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: LIB104-019-Q1-E1-G1

 <400> 5407

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 tacgtgcagg ccgctgacga cgaccaggag tagtttagga ggatcccagg caggaggcct 120
 gcgcctcttt cgatctgtat ccagtttgt gctagccatc ttatggcaac ttgtttaact 180
 tatgtctgta ctcagatatt gttgcttccg ctgactcgtc tatgatcgag cacttgtatt 240
 cgagccctcg aggccctgg cttgtattat gatgcttgt 279

<210> 5408
 <211> 448
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: LIB104-019-Q1-E1-G10

 <400> 5408

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 atgaaggacg tcgccaaggt cttctgaatc agttcatttc acctcagccg tccgatccag 180
 gagccgatcc atctacgtac ggcttcgtat atcaatttca tgcaactacc tactccggtc 240
 ccgatccagc ctcagcttca cctgaggccg gccctaattt tgtttgatca attttttgc 300
 actagtagta actagtgatg atcactgttg caccatttat ttattttata tcgtcacaac 360
 tttccagtgt ttcttttctt tctctacctt tttgtcgatc gtcggctcca gtcgatcga 420
 acgatccatg ctgctaattg tttgtgta 448

<210> 5409
 <211> 448
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: LIB104-019-Q1-E1-G12

 <400> 5409

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 ctgagaatct tgctcaattc tattaggggtg gccttcagga tacaaatgtt cctgagtcatt 180
 tctaccagtt ctagtagcca ctctaacagc ataatcatta ttcttactat tcaattcatt 240
 gagcaaatca ttctgagctt taagtacttg tctacttga gtggtaacca tagaagcatg 300
 tttagtaatg agtttaagtt cacctttaac tctagacata taatcaccca agtggttcaat 360
 catataagca ttttgtttta attgtctacc aatataagca ttgaaatctt cttgcctaac 420
 cataaagtta tcaaactcat ccaaacat 448

<210> 5410
 <211> 444
 <212> DNA
 <213> Triticum aestivum
 <223> unsure at all n locations
 <223> Clone ID: LIB104-019-Q1-E1-G5
 <400> 5410

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 gggatggtag tggggaacca tggcttagag acgcgcttgt ctgaaatgtg gggtaagtta 180
 cgaaagtacc cccaccgatt tgaggaggtt ctttcggttc aggggtacca cgggcatttc 240
 gcgtgtcggg atttcacagg aggtgggagt tttcgcgcgc gttgtaattt cggaatagca 300
 aggcacgggt tgagatggag ggagttgtcg gagcacaaca agacaaagat atatcttaaa 360
 tatttcgggc taacaaggcg cgggttgaaa tttccggaca agcctaacat gtacntgtac 420
 anatcaatgc gccctacana tgtc 444

<210> 5411
 <211> 441
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-019-Q1-E1-G7
 <400> 5411

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gctcagtctc tcgaaagtgc ttataaaaat aggggtgtgtg tgcattcata ggggtgaatg 120
tatgtgcgta tgtatgagcg cttgcatctg ataaaaacaa ctactctcac gacaactcat 180
cataatggtc aagggcgaga cggtacacgc tccgcactaa gaaaatcctg cgcggatcgg 240
tacgacgtga tgtattacac cactcaccgg ctaacccggg cagtgataac tatcaacatg 300
gaataacaat tgaagttatc actgaccgtc cgctagctga aggcattgtgc aacaaagaat 360
aaacaacaac acacaattac agaggcaaca cagaagacat gaagacatgc acatataaac 420
attggtgaac attcgattat c 441

<210> 5412

<211> 449

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-019-Q1-E1-H5

<400> 5412

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gagaacaacc gaccgggtgca gtcccctgaa gaggttggcc ggctggattg cgtgccagcc 120
atcttcgatg agtcccagtc ccgggacaag atgtgtgttt tctccgtatc agcagcaaga 180
gtttctctag atgaactgaa tgaatcagca gtgcttttgt gcctcgaatg gtctccgtgt 240
ccgtggcgac cggagctcga gtttcttctg gcaaatacct ccacggcacc ggtgaatcta 300
tcccggatct cttgtcctac tgaaagtctt tctgttctct caacagatgg cccaactcca 360
gccaatcttc cactcggttg tcgaacaagc ttgttactgg aactcatatg aggatacttg 420
agtgcggtcc agtcaaatac ataatcaaa 449

<210> 5413

<211> 427

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-019-Q1-E1-H7

<400> 5413

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gatgaactta tgatgtctac agaaggtcgg agctttgtgg atggtggcat gaaggagata 120
 gaagctggag gtagaggata cagaagaggg gcaaagtatg atttcatggt ttatggacag 180
 gacaactcaa tggacaggag gagctccttg gaccccccttg ccgaggcgca ttacaagaga 240
 cccactcctc tagaggaaaa gaagaatgtg cacagtatgg gcgatgagtc cttcatgata 300
 cctgttacct ccaactcaca tgataacctt ggagcagccg gccgtactgc cattgacatt 360
 gatgccgagc ttggctcaag tgttcagaaa acatcagatg ctaaggctgg cgctgaactt 420
 ttctatg 427

<210> 5414
 <211> 454
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-020-Q1-E1-A1
 <400> 5414

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 ggattctgtg ctgatgacat tggcggagtt tgagacgaca agagaggcgt ggaatgcact 120
 caaagagatg aggattgaat aaaatcgtgt cacgaaggct cgggcacaag tgctgaagcg 180
 ccaagttcac aagttgcaga tggagaaaag tgaatcgggtg aacgactatg ccatgcagat 240
 ggagaaagct cgacgagacc gagattgtgg agaagttttt cagttcggtc actgataaat 300
 tcacgtacat catcgggacg ctcgagcagc tttacgatat cgacgacatg accataacgg 360
 aagcgatcgg atgcttgccg acgtgggaag agaatgctcg tggatgtcgg aaacgcaaag 420
 gaggaggtga tgaccaactc atgtactcac gcgc 454

<210> 5415
 <211> 463
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-020-Q1-E1-A10
 <400> 5415

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tggagatcta tttgatgtaa ctcttttagc ggtgtgtttg tcgagatccg atgaattggg 180
 ggtttatgat caagattatc tatgaacaat atttgaatct tctctgaatt cttttatgta 240
 tgattggtta tctttgcaag tctcttcaaa ttatcagttt ggttttgcct actagattga 300
 tctttcttgc aatgggagaa gtgggttagct ttgggttcaa tcatgcagtg ctcgattcca 360
 gtgatagtag gggaaatgac acgtattgta ttattgccat cgaggataaa aatatggggg 420
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<210> 5416
 <211> 467
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-020-Q1-E1-A11
 <400> 5416

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 attcctcaca acttttcttg aaagcagcca tggattcctc cacctcctgc tcgcactcga 120
 tccggagctt cctcaagtca cccatcagtt cctcgacgac cgctgtcagc gtcattccca 180
 aggcactact ctgctcatgc agcatcttcc tgccaacggc ctctctcttc tcgccgaacg 240
 ccttgaggat cttcgcattg tcatgatga gttgctcaat gaggcgggtc tccttggtcaa 300
 ccgaggcacc tctgatcttg agcagcttca tcaagccgtt gaccagctcc tgctgcttag 360
 tgacgccagt gagaatgtca tcgtccccgg ccaaagactt ccggaatgcc agctcatcgc 420
 gatggccgac gtcgcgagtg cgcttgtag agccctcgcg tgcccg 467

<210> 5417
 <211> 470
 <212> DNA
 <213> Triticum aestivum
 <223> unsure at all n locations
 <223> Clone ID: LIB104-020-Q1-E1-A2
 <400> 5417

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 atgctcatag ggatagggta tgcgttcata ggggtgagtg tatgcgtgtg tatatgagca 120
 ctctatttg taccgtgtta aaaaaagatt ccaagggtccc aaagataatg aacttgatta 180

aaaatttgtg tatataaatt cattcttttt agataaaagt ttgaatttaa tttggttggt 240
 gtgcgcaaaa cctaggctat agtgcaacgc ctagacgaca catgggagcc tcagcagcaa 300
 gccactgtga tggactcttt ccaacaaaaa ataaatctaa aatctttgtg aacatataat 360
 ccaaataatca gataataaac ttgatataac agattaaagg taattacaca ctggtgctag 420
 aacttgccat gaatgtgcac tttagtgcct gaacttgcaa aatacattta 470

<210> 5418
 <211> 461
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-020-Q1-E1-B10
 <400> 5418

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 gggagaaaga cagtgttact acccttatct tgttttagatc tggagaggat gagagtgtgt 180
 gaatagagca atcctagcaa gcaagcgoga aggctccggc ctatatatac gtagtggggt 240
 agttttcctt tttcactcca tcaaaacaat cgttttaaat tgtgtactac tacatgccag 300
 gtcgcatttt tttagtgtgt gattgttttt tgagatagct acccgcttgt tccaagtgg 360
 gttacgggtgt gccaaagtcgc actttgtatc gttcaagtct ggtactacaa gtccctccat 420
 taaatgaaca acaaccctc gtaaaattgt gagcaagcca c 461

<210> 5419
 <211> 468
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-020-Q1-E1-B11
 <400> 5419

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 gcaccgtatt gcagtagtct agttcgtcag tagcctcctc ctcctcttcc tcttattgag 180
 cgcgcttggc agaggagagg ctaccggaaa tagtaciaag cccctccgta gtagtattta 240

ggggctatatt tgttcagttc atctgactat agatgtggtg gaactgtaca acatacttaa 300
aagtagctag tatatatagt tgaactagct atttcagtac gtggttggca acaattgggg 360
aaaaattcgg tcgattcagc tataaagttg aacggttttt aaaaattaag cagcactact 420
taatctatga atggaatcta tgcttaatta ctgaatttta gttgcaaa 468

<210> 5420
<211> 491
<212> DNA
<213> Triticum aestivum
<223> unsure at all n locations
<223> Clone ID: LIB104-020-Q1-E1-B4
<400> 5420

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ttacctgcat ctttcgcttt gaagagtgtc catttgctat gtcacccacg agatttgttc 180
ttgtaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaagaa aaaaaaaaga aaaaaaaaaa 240
aaaaaaaaaa aatgaaaaaa aaacaacttg gaaaaaaaag aaataaaaaa aaaaaaaaaa 300
gggccgccca aaagggttcca accttagtta cccttgaatg gaaattcaaa acccttcaaa 360
agggtcccca aaattcaatt cacggggcgt cgtttaaaaa catcgtgacg ggaaaaaccc 420
gggggttacc aaatttaacc cccttggaag aaatccccct tttccaagcg ggggttaaaag 480
cgaaaaggcc c 491

<210> 5421
<211> 467
<212> DNA
<213> Triticum aestivum
<223> Clone ID: LIB104-020-Q1-E1-C11
<400> 5421

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tgaagcaatg aaactgacac cataatattt tgaattaaaa tcagaaatca ttttcctctc 120
ttggctaagt aaaaggaagc ttgtatgtaa aacaattatt tggttaactga tatcatcaag 180

aaagctgtgt ttctatcatg ttttcacctg catacgtgat gcatagcagt acaccattat 240
gtaagaacta gagctcgaat ttacatgagt ccattagtct ccagatctag caatggctcc 300
tataagtatg caattcctat aatgcagtta tattctagac aaggctcctga taaagaactt 360
gattactacc aggataacaa ggtgctaata aataaaaaata gaaggtgcca atgaactaaa 420
ataatagaag gtgctaata tttatgtttc ttaactaaaa tgcaaaa 467

<210> 5422
<211> 474
<212> DNA
<213> Triticum aestivum

<223> unsure at all n locations
<223> Clone ID: LIB104-020-Q1-E1-C6

<400> 5422

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aacttccttt ttgtgaaact tgtactatta tgtgcttatt attgtatatt ataataagct 180
tattgtatat tataataagc acaatttccg tcttaattga gtgcaaactg tgccttctgt 240
tttttttcat gttctttctt cttaaagggt aataccaatg ccattaattc attccttctt 300
agaaaaacttt gttattttta tttgtttcag catttggtttt attttctttc tatgagggta 360
ataacactcc cactacttca ttcccttctg agaaactttc tttgcgaaaa tttcattatt 420
atatgcttat acttgcata tatanaggct acattttttg tgtaaactgt gtgc 474

<210> 5423
<211> 479
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-020-Q1-E1-D11

<400> 5423

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tggaagcttg ctatccatgt gccatagcca tgagttggtt gcgagatctt atgggtttca 180
cctctagcct accccaactt gtttgggact aaaggctttg ttgttgttgt tgtttcattt 240

ttttatgaat gtactgttca tgagggtgta ggggcacccg ggagctgtta gacattttctc 300
gaaactgtat tgattttttt attttaagat ttggcttaat ctgaccaatt agattaacac 360
attctttttt aattgctatc agaattgaga gatccagcaa agatatatgt caaattgttt 420
attgtctagc tattgggttc tattgatatt catgtcaaat ctctattgat gatcatttt 479

<210> 5424
<211> 447
<212> DNA
<213> Triticum aestivum
<223> unsure at all n locations
<223> Clone ID: LIB104-020-Q1-E1-D12
<400> 5424

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aggtagtgat atcaaagttg tgctagttga gtagttgtga atttgagaaa tacttgtgtc 180
gaagtttgca agtcccgtag catgcacgta tggtaaactg tatgtaacaa atttgaaaca 240
tgagggtgtc tttgattgtc ctcttatga gtgacgggtc gngacgagcg atggctcttt 300
cctaccaatc tatccccag gagcatgcgc gtagtgcttg gtttttgatg actttagat 360
ttttgcaata agtatgtgag ttctttatga ctaatgttga gtccatggat tatacgcact 420
ctcacctttc catcattgct agcctct 447

<210> 5425
<211> 413
<212> DNA
<213> Triticum aestivum
<223> unsure at all n locations
<223> Clone ID: LIB104-020-Q1-E1-D2
<400> 5425

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tgcccagacc ggccctcggc atcaatttcg cccgcaacgg catgaaccgc cgcgactggc 120
tctccctcgt cgccgtccac tccgactcgt ggctcctctc cgtcgccttc ttcttcgggg 180
cgccgctcac cgccaacgaa cggaagcgct tgttcagcat gatcaacgat cttccaaatg 240

tgtatgaaag tatggttgac aggaagcaca gggacaggtc tgggtgtgat agcagtggca 300
aatccaggca ctcatcanag ccaaagcagc gaactgatga tgtccgcaa agaactccag 360
ggcagttgcc cgagaagaag acgaggacga nggacaagaa gaacacagcg aaa 413

<210> 5426
<211> 482
<212> DNA
<213> Triticum aestivum
<223> unsure at all n locations
<223> Clone ID: LIB104-020-Q1-E1-D9
<400> 5426

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ccgtcggccc ggccaaggag cccgagaaga aggaggagaa gaaggaggag gccaagaagg 180
agggcggcga cgccaagaag gaaggcggcg acggcggcga cggcaagaag gacggcgatg 240
ggaagaagga cggcgacggg aagaaggacg gcgagaagaa ggaggagggc gacggcaaga 300
aggacggcga cgggaagaag gacggcggcc tacatcgagt ccgtcggccc ggccaaggag 360
cccgagaaga aggaggagaa gaaggaggag gccaagaagg agggcggcga cgccaagaag 420
gaaggtggcc ccgtgtcgt tncgcacca catgccgctg ccgcaccaca tgccgccgcc 480
ct 482

<210> 5427
<211> 474
<212> DNA
<213> Triticum aestivum
<223> Clone ID: LIB104-020-Q1-E1-E11
<400> 5427

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gccgggcaac ttctggtgg gcgcgctgga gctgtcgggc cctgcacct cctccatcat 120
catccggtg gacggcaacc tctcggcac cggcgacctc accgcctaca agaagaactg 180
gatcgaggtg atgcgcgtgg acaacttcgc catcaacggc cacggcgtca tcgacggcca 240

gggccccctc gtgtgggaga agaacatgtg cagcaagcac tacgactgca agatcctccc 300
 caacagcctg gtgctggact acgtgaacaa cgcgacgac cgcgggcatca cgctcaagaa 360
 cgcaaagtgc ttccacctca acctcttcaa ctgcaagaac gtgctgggtgg agaacgtgga 420
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<210> 5428
 <211> 452
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-020-Q1-E1-E2
 <400> 5428

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 gcgggtggtga ttgaggctcg cgggttgctgg ttgagcctgg tggcggctgc gctgtgaact 180
 ccagttcatc ctttactgtc aacggttacc tcagcccggc aagttcccaa gttggcggaa 240
 ataaaagagc aaagaaagtg ccagcaaagc taccagacta gtgcttggtt gttgctgtct 300
 gttcttatgt cagaccatgt gagaattcat gggtatcgtt gattgtaagc tatattcagt 360
 attatttccc ttcccatctt agtactttgt cagactatgt tcaactaaat tgggctcaga 420
 acatgttcaa ctaaactcaa tacaatgccc cc 452

<210> 5429
 <211> 468
 <212> DNA
 <213> Triticum aestivum
 <223> unsure at all n locations
 <223> Clone ID: LIB104-020-Q1-E1-E3
 <400> 5429

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 atcagagAAC gccgaaaggt cacaagatgg tgcagactga aggagcagac catacgaagc 120
 agtagaggaa acataacgca ggatgcgctt aactgccgag agatgagtgg tacgaggtgc 180
 atgcagatac tggcacacac ggttgactgc ataagagaca tcaggtctgg tgatagttag 240
 atattgcaga ccaccaacaa ggctgcgata ctcagtggca tcatcagtgg aaagaagatc 300

ccatcaaggg cagacaaccg gtcagtggca gacatcggag tgatagcatg tttgcattgg 360
 agcatcccag cagggcccag caaatccgtt gagtactttt tctgactcaa agtccaacca 420
 gtagaagacc gtgacacctc caatccaaga aaataatgca aagcacca 468

<210> 5430
 <211> 372
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-020-Q1-E1-E5
 <400> 5430

taccggtccg acattcccgg ggtcacggga tgaccgcaat gttctcctac acccttatcc 60
 tgcagctgct agccacgctc caaatctacg cagtgccatt catgactttt gtcacaacaa 120
 ctaagatctt cacgtacatt tgtcgtcct ttagatcct gccacaatc agttctgaca 180
 tctattattc tgacaattct tctataaata ttattttcat gccacaattc aacttcgcgc 240
 ttcgtagaag tggcgcgcca ttaaataagct caactactaa cgtcgcacca caccaacggg 300
 gcgctataat aacttgctga ccacgttct agtgtaacac cgtggatgtg gtgcgccatt 360
 ccttttcgct ca 372

<210> 5431
 <211> 466
 <212> DNA
 <213> Triticum aestivum
 <223> unsure at all n locations
 <223> Clone ID: LIB104-020-Q1-E1-E8
 <400> 5431

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 aggaaatggg taggatggac gcgaactgcg tgcagtacca gccgctgagg atggcgctacc 180
 aggccgcgca acggctcatc tgcttgaagt actcaaacca aggggacgac tacatccgtg 240
 aagcattgca ggacctcaag gagagttacg ctgcaggcaa tttgatatga aacaacaaga 300
 gattacgtct ccaggaattt gatagaggtc tgtttgtagg tctatggccg cagaggatcc 360

atcagtctta tttccatccg ccgctgtaat tatatattag tcagagtccg atactgaaag 420
 tggcgatanc ggagagatcc cttattacac acagcacacc tggagt 466

<210> 5432
 <211> 384
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-020-Q1-E1-F10

<400> 5432

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 cttgctgcgt gccctttgtt tgggatctca tcttggtcta acgctggaac gttatatgtc 180
 ccaaggaaac tttagatag gcttgtcgcc aatttttgtc agtaaatgag tcgtgaataa 240
 ttatcaactt gctctgtgcg agtgaagtga tgtgactgga atttaacgta cccccgtgga 300
 tgtgtatggg tttaagatct gcactcttgt gtgctgcttc cttctgtgtt ttttgctttg 360
 cttattttgg aataaatttt tgct 384

<210> 5433
 <211> 454
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-020-Q1-E1-F11

<400> 5433

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 gtgcgagact aattatttct tcgtctgac accgtatgat cggcgtgttc atttggtgtt 180
 cacttgtgct tctgactgaa gccgcgtgtt gtacagaata cagagctatg aagaaacca 240
 tttcgccgtg attatttgga taaaaaaaa acaaaaaaag aaacgcaaga ggcgcaaagc 300
 gcaagcagac gcgggaaaga gcacaaagca aaagacaaaa gaaaaaaaaa aaaaggggcc 360
 gctctaaagg tttcaggctt acgttcccg gaatgcaact tcatacccct tcaaaagggt 420
 caccaaaatt caattcacgg gccgtcgttt taaa 454

<210> 5434
 <211> 417
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: LIB104-020-Q1-E1-F2

 <400> 5434

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 cgccgggcaa cttcttggtg ggcgcgctgg agctgtcagg cccctgcacc ccctccatca 120
 tcatccggtt ggacggcaac ctctcgggca ccggcgacct caccgcctac aagaagaact 180
 ggatcgaggt gatgcgcgtg gacaacttca ccatcaacgg ccacggcacc atcgacggcc 240
 agggccccct cgtgtgggag aagaaccagt gcagcaagca ctacgactgc aagatcctcc 300
 ccaacagcct ggtgctggac tacgtgaaca acgcgacgat ccggggcatc acgtcaaga 360
 acgccaagtt cttccacctc aacctcttca agtgcaagac ggtgctggtg gagaacg 417

<210> 5435
 <211> 414
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: LIB104-020-Q1-E1-F6

 <400> 5435

cctgcaggaa ccggtccgaa attcccgggt cgacagggac tggcctccaa gggccaagcc 60
 cctggagaga tcgtaagtat ccggactccc gaataacttc atggtttttc tttttgccac 120
 ataatgtctt tctaattgcc catacaaccc tgcagtccgc ccaaggatga tcttcccgt 180
 tcgtcgcatt ggtccttagg tgcgtcggat atggattctc ttccgactgc ctccaccccc 240
 cgtgatgcgg acgatgccga ggtgggatcc cggaaggta cccactcgga ggaggaggcc 300
 ccggaggtgt cgctggacaa cctcccggac ttgacaccgg actcggcccc ggaaccata 360
 gtggctccgg agtcggggcg gcgaccctt cgtaagaagg gcaaagacgt gacg 414

<210> 5436
 <211> 481
 <212> DNA
 <213> Triticum aestivum

<223> unsure at all n locations
<223> Clone ID: LIB104-020-Q1-E1-F8

<400> 5436

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gagaagtggc ctgagagcaa tagatggaat accatctacg tacagcagga caatgctaag 120
actcatataa aaccagatga tccacttttt ttgcaggaag ctgctagggg tggttgggat 180
attaggatga tataccaacc acctaattct cctaacacaa acatattaga tcttgggttg 240
tttgctcaa ttcaagcaat gttccataga aagatgccca agaccctagc cgagattgtc 300
caaaaggatg tgcaactgatt agatcttggg tgggtattctt tttatgttct atgtgatata 360
tacctatttg tgtatgaact gttttgagtt tttcatgtca tgtgtcatan gttaattaat 420
ccctagctga gtaccccatc aaaggctcaa taggatctgg ttgagtcac aagcgtgcat 480
g 481

<210> 5437
<211> 441
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-020-Q1-E1-F9

<400> 5437

ggctcctagga ttccccgggtc cacgggggaa aaaaaggcct gatgctcctg ctgatgaagc 60
ttcgtcctac tacaagggtc ctttctcaaa aaccgtctac attgaaaaaa actgattttc 120
gcgtgaagga ctccaaagat tactatggat tggctcctgg taaatctgcc ctgctgaggt 180
atgcattccc gataaaatgc acagagggtta tttatgggtga taatccagat gatattgttg 240
aaattcgagc cgagtatgac ctttcaaaga cctctaaacc taagggtgtt ctgcaactggg 300
ttgccgagcc agcacctgga gttgagccgt taaagggtga aataagaata tttgagaaat 360
tattcctctc ggagaatccc gccgaattga aaaactgggt ggggtgaaatt aaccgcact 420
caaaggaagt aatcaagggc g 441

<210> 5438
<211> 468
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-020-Q1-E1-G11

<400> 5438

ccggctcctag attcccgggt ccacgggaat tttggacatg gcaggctcag tcgtggttggc 60
gaggcaggcc ccagactgcg aggtggttgg ttggttaagct cgaggatgaa cagtgggaagg 120
caggggagga gacgaagagg caagtgtgaa tcgaggctga aaatttggga acttgccctc 180
tgagagctgt ctaaaagagg aaacccgaat cgctggttgg gctggtccta tagctcaagc 240
ctcaattggt ggaaaaggaa aagttggtta ctaaaaaaat gggcacaggc ctataagccg 300
aggctcgggg caggcccagg ccatgtgacc caagttgcca cacccatagc aagtaattaa 360
cctgtttgaa accctggggt ggcgccctca actccctaata catagcgatc attaacctgt 420
gtcgaagcac gagcattacc tcctgggtcac acagtcaaag cactttgc 468

<210> 5439

<211> 307

<212> DNA

<213> Triticum aestivum

<223> unsure at all n locations

<223> Clone ID: LIB104-020-Q1-E1-G5

<400> 5439

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acaccgacgg tgacggcttc atcgacttca acgagttcaa ctccttccgc aacgccaaac 120
ccgggctcaa gaaagacgtc cccaaaggcc tccgaatcaa ttcaattcaa ctcaaccgtc 180
cgattcaaga accgattcaa ccacgtacgg gttcctataa caatttcaag caactaccta 240
caccggtccc gattcaacct caacttcacc tgaaggcggc cctaattttg tttgatcatt 300
ttttttg 307

<210> 5440

<211> 379

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-020-Q1-E1-G7

<400> 5440

ggcccgaaat tcccgggtcg acgggagaca gcggtgtcta aggtggagta gaaggatgcg 60
 gctgctggag cttttctccc tccgtgcacc caacaagcct ttgtgcaaaa tttgaaccag 120
 acattgcttt tgtagaatta tcgttgctta gtattacgat tctctaaca ttcgcgcgcg 180
 tatatatctc ccatacttat atatgtacac agtgtatata tcgcgccac atgtgtacgc 240
 atacaatatc atagagtata ctcgacaaaa aaaaaaaaaa aaaaaaaaaa aaaagcgggg 300
 gcgctctagg atatacagc atatatacgt gtatatgaga tgatcatatc cctctagagt 360
 gtcacctatt cacatcaca 379

<210> 5441
 <211> 479
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-020-Q1-E1-H10
 <400> 5441

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 ggcacttctt ttctactgga atgagatgaa ccgacagggt agagtagaag ggtcggttca 120
 gaaggctca gaagaagaat ctgagaagta tttccacagc cgccacagt gaagtcagct 180
 tgggtcaatt gttagcaagc agagcactgt ctttctgga agagaagttc tccaacaagc 240
 atacaaggaa ttggagcaaa aatattctga cggtagcttc atcccaaac ccgattactg 300
 ggggtggtac aggttgacat caaatctttt tgagttctgg caaggccagc agtctcgtct 360
 gcatgaccgg ctacagtatt cacagcgaga attaggtggg agtacagaat ggcacatcca 420
 aaggttgctc ccttgatcag taacctcctt aaagctctcg cctcgtgggt aataaaagg 479

<210> 5442
 <211> 376
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-020-Q1-E1-H12
 <400> 5442

ggtccaggac tcccgggtcg acggaggaag gagcagcagc aggagcagga gaccagcag 60
 caaggccaag gactcaccgc cagacccccg ctcgccaacg gcaggtctgg aatgttgcca 120

atgtcagagcc ctccagcaaa tccaggacag cttaccattt tttatggtgg gtcagtatgt 180
 gtgtatgact cagtgccacc agagaaggct caagcaatca tgctcattgc agcagcagca 240
 gctgcgccct caaaaagcaa tggcaccgct gctgttaagc ctccagcgat gtctgcgacc 300
 aatgctatcc aggccatgcc taagcggctg ctctcacttc agagcacttc tgtagcagat 360
 ggacaacctc aggctg 376

<210> 5443
 <211> 471
 <212> DNA
 <213> Triticum aestivum

<223> unsure at all n locations
 <223> Clone ID: LIB104-020-Q1-E1-H2

<400> 5443

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 gtcaccttcg ccactgccgg tgcctgacat tgggatggag ggggagggga acaaacaggg 120
 agcgggagtgg aagcggcgaa gatggaagca aagagtgaag tggagctagg gtttgctccg 180
 ggtgggggatt ttagtgggga tagagtgggt aggtatgggc catggtggtc aggctgacgt 240
 ggcagacgcg tctaggccac cccatacccg ccctagattt aggctgggtt tgaggggtgc 300
 ctgtcagctc gaatggccat gtttgggtata nggagccga ctcggtcaaa ttttagtgac 360
 agtgcattga tcaggccatc taccgggtca gttttggcac ggaccggggc gtccaccatg 420
 acgtagttgc cacggtaggg gttgccgggc accatacacg acactagaga g 471

<210> 5444
 <211> 456
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-020-Q1-E1-H9

<400> 5444

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 atcctaagac tgaaaacatt tttgttctag actcaacaac gtcagcgatt cgatcaagca 120
 gggggctcct aagtcgggga tggccctgat taccaacttg taacaccac gatgctggcta 180
 tatctccac gtgtcgtagc acgacttaga ggcataaccg cattgtgggtt ttgtcgcaag 240

aagtgtcatc ttcaaacaat cccaagttat gaacaagaaa gggataaata gagttggatt 300
acaatcgcca cttcacacaa gtacttaaata aaatcatata tcattcagag tacacacata 360
gtccgactac ggacgaagcc aaaagaaaag aagataaccc aactgctaga ttcccgatcg 420
tcccaactgg gctccactac tgatcaacat gaaacg 456

<210> 5445
<211> 469
<212> DNA
<213> Triticum aestivum
<223> unsure at all n locations
<223> Clone ID: LIB104-021-Q1-E1-A6
<400> 5445

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ttcagcttaa gcgtgaggcc cggatgaagg gtgggtttta tgtcagtcct gaggccaagc 180
tgctgtttgt tgtcagaatc agaggatatca atgccatgca cccaagacc aagaagatct 240
tgcagctggt gcgtttgagg cagatattca atggagtgtt cctgaagggt aacaaggcca 300
ccatcaacat gctccgcagg gtcgagccat atgttgcata tgggtacccg aacctgaaga 360
gtgtgaggga gttgatctac aagagagggt atggcaagct caacaagcaa aggattcctc 420
tgaccaacaa caaggtcatt gangagggtc ttggaaagca caacatcat 469

<210> 5446
<211> 467
<212> DNA
<213> Triticum aestivum
<223> Clone ID: LIB104-021-Q1-E1-B6
<400> 5446

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ttgtgatgca cagtgtttgg ctccggtaca tcacagaggc cggcagcaag gaacacagct 120
tcctgccctt gcctctgtaa atcatcaagg aggaaaaatg tgcaagatgc ttgaagtttc 180
cccttgaaac gaaggctctg ggcctttgtt tgtacatata ttcccttgat ttgtactgac 240

tctccaatta attattcaga gagctatggc catacaagga aatcaaaagt ttcagttgca 300
 tgtagcaagg aaggtcaatt tgacacggcg gtgctgccat ttgccccctcc cttctccctc 360
 gaaaatgtgg ttgacgctcc ccagatcttc aggttgcattg acaagatttt tttcctgtgg 420
 aacatattgt gtatcttcca tcgggtcatga gtaaattcaa atcaaaa 467

<210> 5447
 <211> 451
 <212> DNA
 <213> Triticum aestivum
 <223> unsure at all n locations
 <223> Clone ID: LIB104-021-Q1-E1-B7
 <400> 5447

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 ttatgttttg agtaagcttg caacaccacc acatgctatt aatcctgata tgtagcaagt 120
 aattaatgat gctacttctg ctatgaatga tgttgatgat gatgctagta cttttcttga 180
 taagattgtg ccactgggtg aatctcttga tgaacaactt gctagatcta aagaaattga 240
 gaatgctgaa accaatgaaa gtacttaaac tgatgaaatt attgaaactg gaaattttga 300
 ttcacctatt ggaactagtg ccactagata tgaatttcct gagatacctg aggggtcatgt 360
 tatggatgga gaagtagcta gagactttct tgcttgtaag gatanagatg atcttaaaaa 420
 attactacgc aggctgaaag aaaaatcttt g 451

<210> 5448
 <211> 466
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-021-Q1-E1-B8
 <400> 5448

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 tatattagtc tttgcttttt agtttaccac aatcatcctt tctgtacaca ctttttggga 120
 gaaaccact tgattagaat ttattagaat atgctatgtg cttcacttat atcttttggg 180
 ctagatagtt tttgctctag tgcttcactt atatctttta gagcacggcg gtggcttaat 240
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agcatgggat ttgctatggt tatgaatttg gtcctagaat gatgagcatc caagttgggt 360
 ataataaaca ctatcatagc aagtgcatta aacactagga tcaatttgat gcttgataat 420
 tgttttgaga tatgaaggta ctagtggttag agtcatgcta gtgggt 466

<210> 5449
 <211> 456
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-021-Q1-E1-B9
 <400> 5449

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 tagtttagat cgagtctgtt cttcatacct acagtccacg aaaaagccac aaaaaaatag 180
 ggtagttca tcatatccga accaatctga gcctttgcat aatcttttta gggtttttgc 240
 tttgttgaat ttgcgggtgc atcgctgtgt caagttgctg gtcttagagt ctagtctttt 300
 agagtttcga gttctgggtca taagttgtca cgccgccgcc gcaccatcat catcgccttg 360
 ccatctacca ccattgtcga tccgccaccg ctctgaatcc gtatctatat accaccaccg 420
 atccgtatcc atataccact accgctacca tatacc 456

<210> 5450
 <211> 486
 <212> DNA
 <213> Triticum aestivum
 <223> unsure at all n locations
 <223> Clone ID: LIB104-021-Q1-E1-C4
 <400> 5450

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 taacgttacg atgacagtta tattatgagt ttatatgttt tgatgtaccg aagggtgttc 180
 ggagtcccg atgtgatcac ggacatgacg aggagtctcg aaatgctcga gacataaaga 240
 ttgatataatt ggacgactat attcggacac cggaagtgtt ccggagaagt ttcagataaa 300

accggagtgc cggaggggtt accggaaccc cccggggaag tattgggcct tagtgggcct 360
tgaggggaga gagagggcag cagccaggag gtggcacgcc ccctcccatg aggagtccta 420
attggactaa gggagggggc gcagcccctc tttcccgcgc nctctccctc tctttccttg 480
ccccct 486

<210> 5451
<211> 469
<212> DNA
<213> Triticum aestivum
<223> Clone ID: LIB104-021-Q1-E1-C5
<400> 5451

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ctgatgctga gacagaactc tctaattgctg agacggaacc ctctgatacg gagacagAAC 180
cctctgattc cgacaatgat ttgccaatgg aagaaacaac agaaactcct gaagaagatt 240
tggatgacct ccaaattggaa gaaacagacg atccttctga agaagaattc gatgatgacc 300
ttgtgatcaa cattgctcct cgcaaggcca acaactcagc tgcccagtta aatagggcaa 360
accaagcagt gaataaggac gagcgggttca gaaaacgtca gcactttgat gagatttctc 420
cacaaatgaa gagacagaaa cctgaggatt tatctgaacc tagaaacca 469

<210> 5452
<211> 470
<212> DNA
<213> Triticum aestivum
<223> Clone ID: LIB104-021-Q1-E1-C6
<400> 5452

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agaacactag gatgactatg gaacggggccg ctttgatgac tcaggcgcaa cgaatccaag 120
ctgattcctt ccggtctctc ttggatcaga acgcttcaaa cgaagtcttg aggagaaggc 180
accggagtgc tctgcgcgcg gtttacaagg tgaggaacct cttcaacaca cctagtgtag 240
ggaccagtga cccgccaggg gtaaattcagg cagtagccgc gcttgggact ggagcgcgcg 300

ctcaaccgtg catgacaggc cgcgccagtc agaataatat cctaccacaa cacgtgccga 360
caccaccggg tcattactct aaccctttgg ataacatgat cgttgtgatg tcgtgactgg 420
cggatctccc agttgaaggc gagtctctag cggcggttga aacgcggaag 470

<210> 5453
<211> 464
<212> DNA
<213> Triticum aestivum
<223> Clone ID: LIB104-021-Q1-E1-C7
<400> 5453

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ccccttcccc ctatatatac ttgaggtttg gggctgccat acacatgagt tctctccctc 180
ttggtgcagc cctacctctc tccctactcc tctctcccc tgggtgcttag cgaagccctg 240
ctggattgcc acgctcctcc accaccacca cgctgttgtg ctgctgttgg atggagtctt 300
cctcaacctc tccctctctc ctgctggat caaggcgtgg gagacgtcac cgggctgtac 360
gtgtgttgaa cgcggagggt cgcgccgttc ggcacttgat catcgggtgat ctgaatcacg 420
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<210> 5454
<211> 466
<212> DNA
<213> Triticum aestivum
<223> Clone ID: LIB104-021-Q1-E1-C8
<400> 5454

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ggctcctgtt catcgagcct ccaccgcgcg ctactccacg ggctactgtt caaccagccc 120
tctccacggg ctccattca accaccctt catgggctat tgttcatcca gccctctacc 180
gtctactatt catccagacc tccacggggg ggtcctgttc atcctgcctt ccatggggtc 240
ctgttcatcc agccccaact ggctcgatcg atcgggggtcc tgttcatcca gaggcaacac 300
cacgggggtc tattcatcca cccacaccag gaactgttca tccaaccccc ccagcaacgc 360

tcactgttca tccaaaggca gtatcgatcg gcttcagtta gcagcagtag cgaaggaatc 420
gttcgatcga gttcagttaa cagccatcga ttaatcgctc gggttc 466

<210> 5455
<211> 458
<212> DNA
<213> Triticum aestivum

<223> unsure at all n locations
<223> Clone ID: LIB104-021-Q1-E1-D11

<400> 5455

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ccttctctca aggacatctg ctggaacggt ccgtcagagg aaaagcttcc atcagtatcg 120
gagtcagtac ctccaactcc gtccctccaag tcgacaaaaa gaaatggcat ttaagtgtga 180
tatcttctga gatgcaatta caatctattc tctctctctt ttcttccctc ctcaaagagc 240
tgagactttg ctcaattgag catcaagctt tagggctctt tgtaaatctt ttttacagtt 300
tccaatttgt ggtagcaatt gtagtatatg gttctcctgt tctattcacc aatagaagca 360
caaaaagtga cagtaacact cttacagtgt tgctttggga caagcatacc atcacctgca 420
aaaaagatct tgtaagagcc anagctatta taggatga 458

<210> 5456
<211> 465
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-021-Q1-E1-D5

<400> 5456

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aaagagagag ggtctgcta gggcaggccg cgcgcccccc aaggcctagt ccgaattgga 120
ctagggggag gggccgcacc cctccttcc ttcccttctc tcttcccttt ccttctctcc 180
tactcctact acatggaagg tctcctagtt ggactaggaa aggagggagt cctactcgtc 240
ctactcccgg tgggagtagg actcctccct ggcgcgcctt cccttggccg gccgccccct 300
cccccttact cctttatata cgggggcagg ggggcacccc ataacacaca agttgatcta 360
cggatcggtc cttagccgtg tgcggtgccc cctccacca tattccacct cggtcatatc 420

gtcgcagagt ttaagcgaag ccctgcgccg gtggagcatc atcat

465

<210> 5457
<211> 458
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-021-Q1-E1-D6

<400> 5457

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gctcttccaa cagaagctca agccgggtac ggctaccgcg gcgttataga cactcggatg 120
aacgcaaggg aaacaggcag gcgtttccga tccagtgaat cagtgtctggc tgccaaactt 180
ttgaaagagt agattgtttt cagaagagtc tggctgttga gctgagtccc ttcttacttt 240
tgccggaggg ttatagtgtt gtaggattcg atggaacata ggtagagac acttgatatg 300
atgatatggg ttagttttcc catttgcaca gcaagctatg acacccccct gtgtttcttg 360
gaagatttcc ttttttattg gaagacacga tgatcctcca ttcctcctgt tatagaagtg 420
caaagacgtc ttaaaaaaaaa cagagaaaag tgaaaaca 458

<210> 5458
<211> 464
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-021-Q1-E1-D7

<400> 5458

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ggcgccctgc tgcgtcctgc acaacatctg cgagatgcgc cgcgaggagc tcgagccgga 120
ggtcccgttt gcgctcttcg acgacgacac cacgccggag acccctgttc gctctgagac 180
cgccaagcag gagagggaca gcatcgcgca caacctcctc caccgcggtt tcgccggcac 240
cacatttttc tgatcaaata acctcctgcc ctctccttgg cttggtacag ataaaaaatt 300
aaacatgtag cgaattcttt tagccgctag gatagaacat tttgttagga tttgtacacc 360
acgttcagag aaactggaaa ttcattgtaa cattctgtgg aaaatttcgg cagtacctgc 420
tgtcggttac tcggtttatt gtttaaagat atatatacaa tttta 464

<210> 5459
 <211> 468
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: LIB104-021-Q1-E1-D8

 <400> 5459

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 ccggggctca atcgcagtgg ttctcccagt gctaccttag ccgacagaat ggaacgtaag 180
 gtacaaaaac atgggagccg ggcaaaccca actattgacc caaaacatga ttcggagccg 240
 atgcatataa tgctataagt tcgggggtgcc gcacttgtga aagtgttcgg acttatcaca 300
 ccataatgcg gggaacacaa gcccctggtg tattctgccg taccaaaata tacgggtgca 360
 agatgtcatt aatgaacata tatgtaaaaa aggtaatgca attataggca aaaattgatg 420
 cattgtttat tcaagagatt ctgccatgag tgcagaacga tacaatag 468

<210> 5460
 <211> 469
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: LIB104-021-Q1-E1-E8

 <400> 5460

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 agagacactc gcacttgggc tccgctttcc atgcgccgat acatacatag atggcatcgc 180
 gggttaggga aactccaacg aggcacacca attctgcatc cctaaatatc cggaccgaat 240
 agtctggaag accgtttggt catcaatcca atgggagtca ccaaatatcc acggaccagt 300
 tcggatgtcc ggaatcccac ataaaccgaa taggattgat ggggtgtgggg gtctcgccaa 360
 aaaattgctt aacgggtcaa cggtacaatc gcatactcat attaaccact cgattacaaa 420
 aaatgctatg ggagtagcat ccattagga catcgggctc aattcacga 469

<210> 5461
 <211> 424
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-021-Q1-E1-F4
 <400> 5461

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 tccacacgga tatacaatag ccttctagtc tgaggtctgt ggtgttggtt gtggcagtct 120
 gtgaccctt ctaatgtcag gcatgcagtg tacataacgt gcaacctgag attgttgat 180
 taggagaaaa tagaatttg acgctagtgt ccgagtttga gcagtatggc accatcaaga 240
 tcccttgatga tcttccctca aaaaaaaatc ccttgatgac cattatgcag tggggcctga 300
 ccagcctttt acgttttgta gagtcgaatc ttgtgttgcc atgtggaatg tttgtgtctt 360
 tgtttcagag caaaaaaaaaa aaaaaaaaaa aaaaaaaaaa agcggccgct ctagaggatc 420
 caag 424

<210> 5462
 <211> 435
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-021-Q1-E1-F5
 <400> 5462

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 ggtcgtggct tagaggggag aatgttagga ataagccacg catgagtatg tgctcatgtg 120
 tgtgatctgc atgcatggat ggattagtta gctagctatg gagccggcgc agctgagtcg 180
 cgtggcagtt ctgcgtggag gaagaatagg aagcaatagt tgaggcttgg tcctatacgt 240
 gtgtatccaa agattctgga gacttggtcg ttaccaagc gtgtgtagct agcccggtga 300
 gtactaatcg gatcaagcaa ccgtgggctt gaccatgcat acgtgtgtgc gtgggggttag 360
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 ccgtgagggc tggat 435

<210> 5463
 <211> 472

<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-021-Q1-E1-F6

<400> 5463

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gactagctag acgcgctagc tacctagtag gcagacagga tatcggtcatg aacaaatatg 120
catacagaga gaagtgatat cgaccacctc tccttctccg agagattggt cgaacagaca 180
agttctcgta tatctatcgg agactaccgg ctagatatag acaatagata tataatcgcc 240
tacagtacgg acgcgtgggc tacatactat tctccgtctt cagcgatcac gtggtcaata 300
aagaatgccg ccaattcctc ttgaattgct cgcgtgcgat ctgggtgctac gagttcatcc 360
cgcatcagag acatctaatt ttaatacggg gggtcaatata tagatatata tatatggatg 420
aatgagactc atcacaaatg atggtaacta catgaaactg tgaatactgt ta 472

<210> 5464
<211> 463
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-021-Q1-E1-F8

<400> 5464

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agtcttttct ttttagttta ccacaatcat ccttgctgta cacacctttt gggagaagcc 120
tatttgatta gaatttgcta gaatactcta tgtgcttcac ttatatcttt tgagcttgat 180
agtttttgct ctagtgcttc acttatatct tttagagcac ggtgggtgact tatttttgta 240
gaaattatta gtctctcatg cttcacttat atctttttga gagtctttta taatggcatg 300
gtatttgcta tgggtataaa attggctcta gaatggtagg catccaagtt ggggtataata 360
aaaactatcg tagaaagtga attggatgct atgggtcaatt tgatacttga taattgtttt 420
gagatatgga tgtagtgata ttaaagtcac gctagttggg tga 463

<210> 5465
<211> 444
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-021-Q1-E1-G6

<400> 5465

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gagcgggatc atgatcacga gaaatatata tataggataa taaggtgggtg tattgccgcc 120
atgtccgttg agctgatgtt tgtttcagct agagaaatcg ttacgcccgc tcataatttt 180
tcgacgctat ggaaaataat aactactggt atatcactct atatcaaacc ggcttgtgaa 240
ataaatgggtt gcgccccggt tttttgtcgt cgaaaaaaaa aaaaaaaaaa aaaaaaaaaa 300
aaaaaaaaaa aaaaagaaaa aagcggccgc tctaaaggat caaaactcga gcgtatctat 360
gaggttccaa gcttaagtac ttctacatgg taagtcaaat tcaattcaca gggccaccta 420
atttaaattc atgggcggta attt 444

<210> 5466

<211> 305

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-021-Q1-E1-G8

<400> 5466

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ttccaaataa aagttcagtg tcatgacggt gggaagaaaa aaaatttgct gctcttaagg 120
ctgcgatgac agtattgttg ttagttgtca gcatgttgca tcaactgtgtg gtgtatgttg 180
gatgttggtg gaaaaaaaaa aaaaaaaaaa aaaaaaaagc ggcggcccca caagatgatc 240
gatgcttacg tctctctgca tacgacatca tacctctact atgtcgtcaa ctatcttcac 300
atcgg 305

<210> 5467

<211> 414

<212> DNA

<213> Triticum aestivum

<223> unsure at all n locations

<223> Clone ID: LIB104-021-Q1-E1-H12

<400> 5467

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agcagtagct acagccctgt cggctgccgt agacgccctc tcggtggaag cggctgcgct 120
caatgcggat gtggcggcac tctcggtgta ggcggccgag ctcttggtgc aggcgcggcg 180
ctcggggggg ggggggcgcg gccatcgtac tggccttcac gaagcgtttc cacgacgtca 240
tctttgcaag aagggggtgc gggaatggg atcaggattc atggattcgg gggttgccgg 300
aacaggagta nacgagccgg cgaagcttaa agagggagac ttaaatagac ccagatattt 360
tcacgcgaaa cggttcctag aaaagaactg tgtgtgatgt cgtagataat tttt 414

<210> 5468
<211> 469
<212> DNA
<213> Triticum aestivum
<223> Clone ID: LIB104-021-Q1-E1-H7
<400> 5468

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ccccgccgat gcaggtgagc gcgagctact acggcgccgc ggagctcgac cgggccaccc 120
atcagcacia gctgggtcaag ggagacgaca tcgagggtga tcttgatcac atgcacatgg 180
gggtgggcgg ggacgacagc tggacgccgt gcgtgcacga ggagtacctg ctgtcgccgg 240
cggcgagcta caggttctcg ctgcggctgc gccccctgtc gccgtcgtca tcgtgccacg 300
acatctacag ctcccggcta cctaattgat cgteccatct gtctgatgtg gccgtcagag 360
gtcgtctga gagagaaaga acattcgaga gactgaaaca atactgtccg agtcgctctc 420
gctcgtgtaa acgtaagaag actgtaactg gacagggtacc tgtcaataa 469

<210> 5469
<211> 423
<212> DNA
<213> Triticum aestivum
<223> Clone ID: LIB104-022-Q1-E1-A1
<400> 5469

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gggatgcaag aacagagggg caagatccaa gtcacgggtc gcaaacactt ccataagggg 120

ggcaatttttt gcaactagaa gattaggggg gaggtacaga gagggaaatc aactagttct 180
 aaaactaaaa gaagttcatg gccagaaaat tttggaacaa caccttttac ctttttgttt 240
 tcacttggga aacttgccca actatgccaa ttttttttg caattctcca gatttatgc 300
 ctggtcagca cggagaattg cagacacatt tgcgttttca aaaaaatatt cccacagatt 360
 ttatgtcttg atttctcgtc ctttttacta tgtttttcaa tgtgcaagga gagctcccca 420
 acg 423

<210> 5470
 <211> 386
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-022-Q1-E1-A11

<400> 5470
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 ttactgtaga ctttggtaat gacaaagaag tcctgggtcg gataggcctc gttgtaggca 120
 acaccttcga cctccagaag aattggctgg tgcctctcgc tcagccttca atgctgaccc 180
 tggcaggagc catggttcat ccttcgtacg gtaaactgga gaaacctcca tacacatttc 240
 atcgttatgc atggcagcag aatgtactag atatagacca catccactac cctgcaatgg 300
 atggctacct ttgtttcaat atctacaagg gttggatgaa gagcaagagc caagtgtgtg 360
 gttcaagcaa agaagtatcg tccaag 386

<210> 5471
 <211> 407
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-022-Q1-E1-A2

<400> 5471
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 ggagaaggat gagaaaaaga aagaagatgg cgacagctca caaaaggaga aggccaagac 120
 agggaaagat aagaagagcg agagcaaaga taaggataaa attagcgtca aggagactgg 180
 atctgatgca gatgacagta cccccaagaa caaaaagaat gataaggaca atgcaaagaa 240

gaatgatgaa agcgatgaaa aacaagagaa agacaaagag aaggaggaac atgataacaa 300
 gaagaagcat gtagaagtgg gtcacgcaag agaaatcaag ctacaagata atgagtctgc 360
 gaacaaagaa actggtgctt ctgaagagaa gaatgatggc acggaca 407

<210> 5472
 <211> 445
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-022-Q1-E1-A4
 <400> 5472

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 actcgaacac gtccagaaac gaccacacga agtagccctg cacgttcgac ccgttcctgc 120
 tggattcgag ggtctcctcg atgtaatcct gcaggtactg cgacctgaac tcgtcgtcag 180
 gggcggtccc agcagacgga tcagcaatgc tagcagctcc gttctcatgg atcatgacta 240
 taggggttctt gtatttgagc tggagatgct ccagcatttt ctgcagagcc cacgggttcg 300
 atgtcatgaa atcgcttttc aaccacagaca ggagctggtt cttcttcaaa actggcatgt 360
 catagttcac tgatgcatca cacatgtaat ctctcagctc atcatccagc ttgctaagat 420
 cagccttcac atataccgca atgta 445

<210> 5473
 <211> 384
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-022-Q1-E1-A5
 <400> 5473

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 tgctgtgcgc cggcatcacc gtgtacaccc ccatgaagta ccacgggctg aacgctcccc 180
 ggatgcacct cggcgtgctg ggcctgggcg ggctcggtea cgtcgccgtc aagttcggca 240
 aggccttcgg gatgaagggtg acggtgatca gctcatcgcc ggggaagaag catgaggccc 300
 tcgagagggt aagcgccgac ggcttcggtg tcagcaagaa cgccgacgag atgaaagctg 360

cgatgaacac catggatggc atca

384

<210> 5474

<211> 396

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-022-Q1-E1-A6

<400> 5474

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atgaatctat catgcgtgct acttatgaat ttaatgccga agatggcact cgtagatct 120

atctttgttt ttatgcctag ctagggcggt taaatgatag cgctagttag gaggtaaccc 180

aattttcttt atgttttttg ttttggctcc tgtttagtaa taaatctagc atctaccttc 240

tggttagatg tgtttttatt ttttaattag tgtttggtcc aagtagaacc tataggataa 300

cctacgatga tagttgattt gattctgctg aaaaacagaa actttgcacg cacgaacata 360

attttgtaa ttcacaggaa cgtgattttg cgttga 396

<210> 5475

<211> 287

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-022-Q1-E1-A7

<400> 5475

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gtctcaaatg cttgcggcac ggggcagcag tgtaactggt caagccgctt cgcagtactc 180

atctgttgga actctggacc catgtgtggc cagttagaca gcagcttgga taggtccata 240

aagatttcgt caatgtcaat cgtgacttgg ggctgtctgt aactaat 287

<210> 5476

<211> 411

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-022-Q1-E1-A8

<400> 5476

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aatgaagatt acatcgaata gatctccaca agagaggggg agaactagta aaatatttta 120
tgaacaatag ggaagttgga atacagtaag tttaaaacca atattaataa agagcgagtt 180
cagtacagta ccttgaagtg gtgttttgtt ttctttcgct aacggagctt atgagatttt 240
ctgttgagtt ttgtgttggt aagttttcaa gttttgggta gatatttgat ggcttatgga 300
acaaggagtg gcaaaagcct aagcttggga aagcccatgg caccocgagt aatctaagga 360
caccaaaaag cctaattcttg gggatgcccc ggaatgcac cctcttttcg t 411

<210> 5477

<211> 447

<212> DNA

<213> Triticum aestivum

<223> unsure at all n locations

<223> Clone ID: LIB104-022-Q1-E1-B4

<400> 5477

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gagagataga gagagaaaga gagaggaaga acttaggtct gtgagaaaga tggatacatg 120
taatatacat gagatgcatg tgcattctgga ttctgtatac gtggaagggtg aagagacaac 180
atgtttggtg agagagctgg aaaaacatgg aacagagggg aaagatctcg tgggttgagg 240
gattgacaat ttatgctggg ggagagaggg attggtaatt ttgtgcaaga gagagagaga 300
gagggtgcgg ggaggagtga gtcagccgtc gtcacatcac cctgcttcca aatcgacctg 360
cattctctag cgcggtgtgg tcgctgtcct cgatctcctc gatgcctctt ttgaagattg 420
acgtgttggtg catgttgggg tgaaaat 447

<210> 5478

<211> 185

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-022-Q1-E1-B6

<400> 5478

cctatagtga gtcgtattac gggtaaaacg aagacgaaca ataggaacat gcaaaccaag 60

aagacgtaga gggagaaggc taactacagg aataagtaat agacgaagat atcgagcttc 120
 aggaagcggg tcacgaagac gaatatgaat gtctcgaggg acatgcagac gaagaagaag 180
 atgaa 185

<210> 5479
 <211> 390
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-022-Q1-E1-B7
 <400> 5479

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 gccataaggg ccaaattgcat caatattgac acgttgcaact caaacgtgcc acttggggcca 180
 acatggataa tgggtttttt actagcaagg atcacataag ccattatata gtgttggtac 240
 cctagctaat aacaacatat atcaacattg gtcctagttg cagcttcaca ggaccactta 300
 tgcattgtgc gataccatct tgaccaacac gcaacaacat tggcttcatt agattgatac 360
 atgccataag gggtcctaat cattcaccaa 390

<210> 5480
 <211> 432
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-022-Q1-E1-B8
 <400> 5480

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 cgggcgccgg agatgaagga gaaggtggag gcgtcgctga tcgacctgga ggcggggaac 120
 ggggagacgc tctaccgggg gatctcgcg cggggagaacg ccttcgctg gggcttcac 180
 cgcaaggctc acggcatcct ctgcgcgcag ctggctcctca ccaccgtcgt ctccgccatc 240
 accgtcttcc accccaccct caacgccacg ctctccaact cggccgtcct cgcgctcgtg 300
 ctgcgtgtcc tccccctcat cctgatgac ccattgtaca tctatcagca cagacaccct 360
 cacaatcttg ctatcttggg tttgttcact ctgtgcttga gcttcagcat tgggtgtggct 420

tgtgcaaaca ct

432

<210> 5481
<211> 242
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-022-Q1-E1-B9

<400> 5481

gggtcgacgt tgaatgccaa gattttaagg acttcctcca gagcatccta gtcaaattca 60
ttactgtaga ctttggtaat gacaaataag tcctgcgtca gatacgctc gttgtaagca 120
acaccttcga gctccaggac aattggctgg cgctgctctg tcagccttca ctgctgacct 180
tgtgaggaca catgggtcat ccttcgtacc gtatactgga gaaagctcca tacacatttc 240
at 242

<210> 5482
<211> 384
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-022-Q1-E1-C1

<400> 5482

gggtcgacgg gtacatcatc ctgaggcggg accacacggg tcagtcttaa gtacggatgc 60
attggacgtc atagtgtctc tacaatggca cgtatcttca gctgatgtgg ccatcgttat 120
agaagatcca gactgggatg tcgctgctct gatacaaatt acgctcttg tatcaaattc 180
tcatttagac agatggatta acaccgaaaa gggtggcaac gttcacacat agtacgagtt 240
gcacaccctg actgggtgaag aggacgcgcc ctgttgcaaga ccagtacaca cgagccgatg 300
tggtggtcta tgccgagagt aaacgataca cttgccattc gggctaata cgggtacttt 360
cgctttccac gcttcttttc tcgg 384

<210> 5483
<211> 396
<212> DNA
<213> Triticum aestivum

<223> unsure at all n locations

<223> Clone ID: LIB104-022-Q1-E1-C11

<400> 5483

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gcgtcacagg ttaaacaggg ggggttagtt tagtttaatt aaaaattagg gcactacggc 120
ccacatgtca gtgtcagcag gggggtaatt aaattaaaat aaactaaact aattaacagg 180
ggggctggcc ccacctgtca tcgacccaag gggggtcaaa cccctgggtca gcagggccta 240
acctgccggc ggcttgacgc cagcgaggcc gagacggcgg acgccttcgg acttcttgct 300
ccggcgggtca aaccgggtga tgaaggcgtc taccttgagc tgtgactccc ccgcatccat 360
ctgtgcaaac gtcaggggct gaagtggccc aagctc 396

<210> 5484

<211> 236

<212> DNA

<213> Triticum aestivum

<223> unsure at all n locations

<223> Clone ID: LIB104-022-Q1-E1-C2

<400> 5484

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tcataagcac atcagcatca agctggatga gaacttaaac tgggtacaat atgtcatacc 120
gagtggttgc ctacatcagt aaacatgagg aatgctgcac atgctagcac ttaaaattaa 180
ttgaatctta ccaatgttct aacgtacccc ctgtcatacc agagttattg tcttgg 236

<210> 5485

<211> 430

<212> DNA

<213> Triticum aestivum

<223> unsure at all n locations

<223> Clone ID: LIB104-022-Q1-E1-C4

<400> 5485

ccggtccaga aatcncgggt cgacggggcg gtaaactttc tattttgaaa cagcaacatg 60
tatacttgca agatactcat agtaaaagct atccttgaaa tttttattga aaatagagat 120
gcaaaacatt attataaata acatcaggca aatactaaca aaagaaaatg acgctccaag 180

cataacacat atcatgtggt gaataaaaaat atagctccaa gtaaagttac cgatgagcac 240
agacgaatga cgtgatgccca tccggggcat cccaagctt acgatcatgg atgtccttta 300
atactacatt ggggtgcctt gggaatcacc aatcttaagc tcttcgcact ccttattcca 360
tagtccatcg aatctttaca caaaacttga aaacttcaca acacagaact taacagaaaa 420
ctcgtaagct 430

<210> 5486
<211> 462
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-022-Q1-E1-C6

<400> 5486

taccggacca gaattcccgg gtcgacggga tatgagtatc agagtagcat gtctggagaa 60
accacaccac ctacagagtt ctgttgccca atatcaacaa agctaatagca tgatcctgtg 120
ataataacat ctggacagac ttacgaaaga gaatatattg agaaatgggt cagtgagggga 180
tacaacactt gtcccaagac acaaaaaaag ctagaaaact ttgcgatgat tccaaatact 240
tgcatgaggg atctcatttg caactggtgc agagagcatg gtttcacaat ctcagatttt 300
cttccaagca aagattccta cagttatttg ccagagcaat tgcatgggtca ctctatgtca 360
agtttgcaca atgtttcagt acctctaatt gctgggaatg ccaggaattt tgtgattgat 420
cacagcagtt catctgtcgc gttttctgat gccagttatg tc 462

<210> 5487
<211> 401
<212> DNA
<213> Triticum aestivum

<223> unsure at all n locations
<223> Clone ID: LIB104-022-Q1-E1-D1

<400> 5487

ggtccaanaa tcccgggtcg acgggaagga ttccacctat gagctttgga cgacgggtgaa 60
caatctcttc gcctcgcaat cacagtcccg gatcaccaat ctaaggatcg cgatcaccaa 120
caccaagaag ggcacaatgt cgagctcggc gtatatggcg aagatgaaga gccttggggga 180
tgaactggct gccgctggtc gtcccatctc tgatccggag atggtgaact acatactcgc 240

aggacttgac cgcaactacg actccgtggg ggcggtgatc ggcgctgtca agaacacaat 300
 caccgccgat gacctcttcg ctcagatctc cgcctttgat cagaggatgg agatgctggg 360
 agactcgtct tcaggcgggt ttcattcatc tgccaacgcc g 401

<210> 5488

<211> 438

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-022-Q1-E1-D6

<400> 5488

taccggatcg agaattcccg ggtcgacggg aggccggagt cctgtcagga tgggcggcga 60
 ggtcgtggct tagaggggag aatgttagga ataagccaag catgagtatg tgctcatgtg 120
 tgtgatctgc atgcatggat ggattagtta gctagctatg gagccggcgc agctgagtcg 180
 cgtggcagtt ctgctgggag gaagaatagg aagcaatagt tgaggcttgg tcctatacgt 240
 gtgtatccaa agattctgga gacttggctg ttaccaagc gtgtgtagct agcccggtga 300
 gtactaatcg gatcaagcaa ccgtgggctt gaccatgcat gcgtgtgtgc gtgggggttag 360
 tgggtgtgtg tgagtcttgt acttggctat ataagttgag taaatgaatg agaaaagcgg 420
 ccgtgagggc tggataca 438

<210> 5489

<211> 434

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-022-Q1-E1-D8

<400> 5489

attcccgggt cgacgggggg tgagagtcac ctttcatcca caaccaaggc atacacaaac 60
 ctagacgggg agaaatcaca tatagtcaac acggcatggg caatgttggc actaatgaaa 120
 gctggacagg ccgaaagaga tccgtctcct ttgcacgaag ctgcaaggct tatcatgagc 180
 atgcagcttg gcaatggtga cttccacag gaggaatga ttggaagttt cttgaaaaat 240
 ggtcccttgt gttatatggc ttatcgcaac atattcccca tatgggccct tggagagtat 300
 catagattag tactttgctc tggctaaatt agtaccttct ggtatgaagc acctaaatgt 360

tgctgctcct ctgctggcaa tgctgaaaga gcgatatctt gatttacaag tcctgaagaa 420
 agaaacaaga agat 434

<210> 5490
 <211> 410
 <212> DNA
 <213> Triticum aestivum
 <223> unsure at all n locations
 <223> Clone ID: LIB104-022-Q1-E1-D9
 <400> 5490

cgctgacgta cggctcgtaaa ttncggggtc gactaggtca aaccagacct gtgggaccca 60
 tatgtcagcg tcacagggtta aacagggggg tttagtttag ttcaattaaa gattagggca 120
 ctacggccca catgtcagtg tcagcagggg ggtaattgaa tgatgatact ctagacaagt 180
 tatcacgggg gctggcccac ctgtcagcag ccacaggcgg taaaatccct ggccaacagg 240
 gcctatgctg ccgctcgctt gcggccacca aagcctaaag cggggcgggc atctcacgtc 300
 tagctctgcc ggtcaggaag tcgctgagg gaatttcttc gaatccggga ctgtcttctt 360
 cacaacggtg caagcttaaa tcgctacat gaccgtggcc cagaggagcc 410

<210> 5491
 <211> 424
 <212> DNA
 <213> Triticum aestivum
 <223> unsure at all n locations
 <223> Clone ID: LIB104-022-Q1-E1-E2
 <400> 5491

cgggtccagaa atncggggtc gacgggatag gcgacgtcgg ctcttccccg cgtgagagcg 60
 ataggacccc tgggacattc gtactggcat gcgtctgttg cctgattgct cacaacggct 120
 gccgctccct ggacctcagg cgggagacgt tcgtcaccac tgtcccgtgc cagagtgcca 180
 tcgagctcgt gtctatccca atcagagccc tgacgcatga cgcgagccg agaatgaaaa 240
 tgcttaggat gtttgccacg aaagggtttt tactagctgg gagctgtctg ttgcactttg 300
 ccttactata ggctacaacc ttgtgtcctt gtgctgtgca acttgtggca ctcccagatt 360
 gcagtcaaag ttatggcata tggcgtaatg ctacactctg ttaactggaa aagatgcgac 420

atta

424

<210> 5492
<211> 417
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-022-Q1-E1-E5

<400> 5492

taccggacaa gaattcccgg gtcgacgggg ttgatgcaag ccctagattt agtctgatga 60
catgcttgct aatcatcatt atcctgtttg aagactttac ttcgtacatt acattgaaag 120
attaaatgaa caagtgcaat accacactgt gatcaaattc tgccttgggc tatggaatcc 180
cggaacaat tgtactcagc tttctgtaat aatccctatc tgctgctagc atggcaacat 240
tgaaaaaac atcagaaatt ctacttgagt gccttcaagt aatttagatt gtccaattat 300
ttctgtcact ggatactctt tgtttttcac tgatcacgga tttgggttca gaagatttgc 360
taatttaggt tacgataatg ttggactgaa gttatgatgg cgtgtttag ataaaaa 417

<210> 5493
<211> 389
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-022-Q1-E1-E7

<400> 5493

attcgcggt cgacggggaa gatcaagctc caggcgggag gagacccccg ccgctcggt 60
agatgagaga aggcactggc gcagtcattg tttagatatg aaagttttgg acaccgagcg 120
gaactcagtc gagagcttat atatgaaaac tagtgagaga gagaagacta tatttatgca 180
attagaagag aactatatac attgtttttc cctaagctca ataaggtctg tgtcctttgt 240
ggactgcgtt tcttctttgt cgagacagaa catacactac cgaggattgc agtcaaatgg 300
aacttcgatt caagttaaac ttttgcaata agtatatgaa gttcttttagc agtagctcta 360
gacgatacag gcttacgtac gcatgcatg 389

<210> 5494
<211> 403

<212> DNA
 <213> Triticum aestivum
 <223> unsure at all n locations
 <223> Clone ID: LIB104-022-Q1-E1-F1
 <400> 5494

gggccagaaa tcnccgggtcg acgggggcact gcatgtttct aatcaccacg gttgatggcg 60
 tgtttctcatt tgcgcagtggt ttttaggcaa tatttggaag gcgttaatcc gtttagtacgg 120
 ttcacctatg cccaagtgtc aaccagatcg cactagctaa atgttttttg ttgtttatta 180
 atgaattata aactttgtcg agtgcccatg ggaaaatact tgacaaagat aagacacttg 240
 acaaacaatt tgaaaggaca tcgacccta attagggttt tgggtgtaat ggcaatagtg 300
 agtagacgac taactatggt tcgagtatgc tttgagtata tacatcattg gaaatggaac 360
 ataaagttcg tctgcgattc cctaagctaa aaggataaaa gaa 403

<210> 5495
 <211> 414
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-022-Q1-E1-F7
 <400> 5495

taccggacta gaattcgctg gtcgacctga agtacatggg agaggggggg tcctcgtcga 60
 agtgcgagaa cgccatggcc acgtacgttg gctaccagca ccagagcca tgcgcctagt 120
 cggccaattt gattctggtg gatgctggtg cgaccttaat ttaattctcc ttttcttctt 180
 ctactaatct aattaatcaa tgtttccttg acgaatttgt tgtttcctgt tgcttagatg 240
 ttttgtgtgt gtgcggcatt agggagctgc caattgctgc atctacggag tactccctcc 300
 attccaaatt actcgtcgtg gttttagttc aaaggagta cttgcctagt tgcccaatca 360
 gtgaactcga tcgtctgaca agtgggccct gtgcttatgt tgacgattaa tgtg 414

<210> 5496
 <211> 452
 <212> DNA
 <213> Triticum aestivum
 <223> unsure at all n locations
 <223> Clone ID: LIB104-022-Q1-E1-G1

<400> 5496

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ggataacttt gtagtccaat atgctttgtc caacatttag actttcccct tcaaagacac 120
attgtctccg aaagttggaa gattctatat tttatatccc ttatcttttg agaaaatata 180
tgtgagtga cctgaatgtg gatgtataag attagtagatga aaccacaaaa aatgcaataa 240
tgcatactta catgcaaggc aaccattatc tttctaactt ataaaagaca atatattaat 300
acaacatgt ttgatctcaa ctttctagaa atccaatgat agtaagcttg ttaggaaaga 360
aacatatgat tagtttttagg acaaattggcc aaagttgtta tagaactggc atgtaataca 420
cataacatga gatgttagtt aanctaattt tt 452

<210> 5497

<211> 450

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-022-Q1-E1-G2

<400> 5497

gggtcgacgg ggtattaata aacctgacag gttaattgaa gagtgcaata tcgtttcttt 60
tgctttatct gttgcagaag aaattgaagg taatgctgag ctttcttcat attccgagggc 120
tattatttct ggtgatagta ataagtggat gaccgctatg catgatgaga tggaatcact 180
tgaaaagaat ggcacttggg atttagtaag attacctaga gagaagaaac atattcgttg 240
caagtgggtt ttcaagagga aagaagggtt ttctcctaata gatgagacaa gatataaagc 300
aaggtttagt gctaaagggt atagccagat tccagggtatt gactataacg aagtcttttc 360
tcctgttggtg aagcatagct ctattcgac tttactcagt attgttgcca tgcattgatct 420
tgagcttgaa caattggatg taaaaactgc 450

<210> 5498

<211> 461

<212> DNA

<213> Triticum aestivum

<223> unsure at all n locations

<223> Clone ID: LIB104-022-Q1-E1-G3

<400> 5498

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atactattgc tcattgtgcc tcacttatat cttttgagct tgatagtttt gctcatagtg 120
cttcacttat atcttttgag cataataatt tttgtcttag tacttcactt agatctttta 180
gagcacgggtg gtggatttgt tttaaagaaa ctattgatcc ctcatgttc acttagatta 240
ttttgagagt atttaatagc attgtaattt gcttaaagat aatatacttg gtattcaaga 300
tatgtgaaac tttcttttga gtgcattgaa tagtaagata agtttgatgc ttgataattg 360
ttttgagata tggaggatgat aatatcaaag caatgctagt tgggggtgatt atgaatttaa 420
agaatgcttg tgttgaagtt tgtgantccg tagcatgcac g 461

<210> 5499

<211> 443

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-022-Q1-E1-G5

<400> 5499

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actacggacc cgaaggtcta caaagaacta ctcacgcac atcggagagg caccaatgga 120
agtggatgaac ccctccgtga tgttgcttag attggatctg ctggctctag actctgcggc 180
ggctggaatt gatttttcac gattccccta tggtttctgg aatattgggg tatttataga 240
gtaaagaggc agtccggggg gcacccgagg tgggcacaac ccaccaaggc gcgcctgggc 300
ctccaggcgc gccctgggtg gttgtgtcc ccttgagca tccccagggt gcttcttcgg 360
cccattggat gtcttttggc ccaaaaaaat ccacaaaaag tttcactacg tttggactcc 420
gtttggtatt gatttcctgc gat 443

<210> 5500

<211> 427

<212> DNA

<213> Triticum aestivum

<223> unsure at all n locations

<223> Clone ID: LIB104-022-Q1-E1-G8

<400> 5500

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ggacttttcg gcaaggctgt tcctaaaacc gcagagaact tcagagcact ctgcacaggt 120
gagaaaggca tgggcaacag cggcaaacct ctccactaca aggggagttc gttccacaga 180
attatcccca gtttcatgat ccaaggaggg gacttcactc ttggcgatgg aaggggcggg 240
gaatcaatct atggcacaaa gtctgccgat gagaacttca agctcaagca cactggacca 300
ggctaccttt ccatgggcaa tgctgggaga gatnacaatg gatcccagtt cttcatcnac 360
actgtaacca tgagctgggt ggacggcaag cacgtcgtgt tcggcaaggt gttgtctgga 420
atggacg 427

<210> 5501
<211> 385
<212> DNA
<213> Triticum aestivum
<223> unsure at all n locations
<223> Clone ID: LIB104-022-Q1-E1-H1
<400> 5501

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tcttcatgct cgcgttcggg tggctgtggg gtccgctcgg gtggacgggtg ccgagcgaga 120
tcttcgccct ggagacgcgg tcggcggggc agagcatcac ggtggccgtc aacctcttct 180
tcaccttcat catcgcgag gcgttcctgt cgtgtctctg cgccttcaag ttcgccatct 240
tcattcttct cgtgtcgtgg atcgccgtca tgaccgcctt cgtctatgtc ttctgtccgg 300
agaccaaggg cgtgcccata gagcagatgg tgctgtctctg gagcaagcac gggttctgga 360
agaacgtcat gccggacatg ccat 385

<210> 5502
<211> 413
<212> DNA
<213> Triticum aestivum
<223> unsure at all n locations
<223> Clone ID: LIB104-022-Q1-E1-H5
<400> 5502

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aagctgagct cgttccagca ggagatcgtg cagctggcgg cggtgctgaa cggcgaccac 120
cagctaagca gcctgcagga gaggatcagg gagaggatga acgtgaggga aggcacctcc 180
tacatgagga gcgcctgctg gcgcttcttc gaggccggca tgtcggccaa gaggatgggc 240
ctcgccgacg acgagcagat cgtcaagatg aggccctccc ttaccaccag aatgacctcc 300
tcccctgcag atcaagatga tagtccgtag agagcaacga tgcatacata cataggatga 360
agattgatgt tggaattacc anaattctta gtactacaca tacatacata gaa 413

<210> 5503
<211> 403
<212> DNA
<213> Triticum aestivum
<223> unsure at all n locations
<223> Clone ID: LIB104-022-Q1-E1-H6
<400> 5503

taccggacca gaattcgccg gtcgacgggg gccacatcaa gtacggcggg tggagctcgg 60
acaacggcgg aagcggcggt gcagagtgc aactaggcgg cttctggctc ctacggcgcc 120
tacgggagct cagcagggtta ctggacatgg attccaggcc agtaagtcac gggagtgcg 180
ccggccatga gcttgagcgg cggtggggtt cggcctcgat ggaactacgg cctagagctc 240
gcaatcgaga gcgttggttag aggggaaatg accagggtgt cacaacgcgt tggatggng 300
gctcggngac tcgggcgagg ctctggagtc ggtgtgtggt cgccggcgat ctcgccggac 360
gagagttgaa gacggcgaag gcgacggcga tgcaaggcgt tcg 403

<210> 5504
<211> 457
<212> DNA
<213> Triticum aestivum
<223> Clone ID: LIB104-023-Q1-E1-A5
<400> 5504

cccggtcga cgggaaagtt cttgttttcg taatttggtc actatttcag aaaaatgttc 60
atgtttcaaa aaatgttcgg gaatttcaaa aaatgttctc gttttcaggt agaaacacaa 120
tttcagaaca atgttgatgt ttgaaaaatg ttcgcgggtt caacattgtg atcgcaattt 180

caaaaaatat ccctgtgttt ttttgttcgc atttccaaaa cacatatgaa tacaaatatt 240
gttcgcattt taaaaaaaaat attcatgttt tatttctttt gggtttgaat taagaaaatg 300
tgtttttcaa ttttgttta aaaatatcat ttgtggtctt agaaaatatt taggaatttc 360
caaaaaagga aatagaacat cacatttttc gaaaactggt tgtaatatat acaatacttg 420
cgtgatttca aaactgtttg caactttaaa ggaatgt 457

<210> 5505
<211> 483
<212> DNA
<213> Triticum aestivum

<223> unsure at all n locations
<223> Clone ID: LIB104-023-Q1-E1-A8

<400> 5505

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ctttccctt agttgctga cactactggg ttactatcga gtgccgagg tgagacctct 120
tcagcacttc taatgttaac gttgtagtgt agctattcgg tcgtggtcat cgagggtgat 180
ttctctctta accacttccc aagtctcaga aaggtaacga tgctatcttt gtcgtcatcg 240
accaattctc gaagggtgct cactttctgc cagtcaagga gactatcact gctagtcaat 300
tagcaaactt gtatatctcc agaattgtgt cactccacgg cattccgaag gagatcagtt 360
cagaccgtgg aagtattttc actccgaagt tctgggatag tttccaagag gcaatgggaa 420
ctcatattac ctggagcact gcttatcatc cccaatcnca agcccaagtt gagcgagtca 480
atc 483

<210> 5506
<211> 262
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-023-Q1-E1-C2

<400> 5506

ctctccaatg ttgatgtaag taactgtcag atgttgagtg tcttgaaaac tttctgataa 60
ttgtgggatt tgctttgtaa tggtaatcgt gaaattggtg tggttgaaaa aaaaaaaaaa 120
aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 180

agcggccgct caaaaggatc aaagctaacg tacgcgtgaa tgcaacgtca tagctcttca 240
aaagtgtcac ctaaattaaa tt 262

<210> 5507
<211> 138
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-023-Q1-E1-G7

<400> 5507

aactaggcgt gcatgctagc tcagaccgct gcgaaagtgt caccgtaatt caaatcactg 60
gccgtacgtt tctacagcgt tcagactgac agaaccttgt cataacgtaa catatccgtc 120
ttggattata tctaccga 138

<210> 5508
<211> 306
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-023-Q1-E1-H5

<400> 5508

ggtccacggg ggaagaggaa ggaaggacat ggagttattc gtgacgtggt taaaactctt 60
gagggtttttt ttttgaaaaa aagcaaatac actgccccgt ggacaacttt tctcggacag 120
agggagtatt atagaagaaa atgttgtatt gaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 180
aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaacggtca aacaaaagga 240
tccaacctta cgtacgcatg aaagctacta catagcccat caagacagtc atcataaatt 300
caattc 306

<210> 5509
<211> 461
<212> DNA
<213> Triticum aestivum

<223> unsure at all n locations
<223> Clone ID: LIB104-024-Q1-E1-A9

<400> 5509

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 gtggtgggtg ttccgcgcac acccaacagg gatgccacgc gcactatact atgccgggta 120
 gtgcccacc gatgtagcct cccagttgga gttgttgtct gatgacagtg gtgtggctga 180
 gcgaccacga tggaccagcg ccattggtga ttatgggaga agcagacgag ataagctaca 240
 gggagggagg ggaaaatgcg acgcaggact cgcgagccgt gagggtttat atagtaggcc 300
 tgtaagtatt ggatttttgg tgatttcacc gagtcgggtg ggaagctcgc gcaggaacct 360
 gcgaggttac gcaggaatg agctcactga cgattcattg gcaccaccgt tttggcaaaa 420
 gaacgcccc gcgcgttgca caagcttgcg ttgtacgcct a 461

<210> 5510
 <211> 433
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-024-Q1-E1-C12
 <400> 5510

ttcccggggt cacgggtcct cctacctcct aggcgcgcac cccttgctcc tatataagta 60
 gatccatcta gtagcttttc cttcggatt tgtttagtta aaagttagcc attgcaactt 120
 cgtgtacttc gtttgtgtcc aacgaccaga ccaagaccgc ttacggatcc ccacctttat 180
 caatacttca tacatattca caatattcag attgctttta tcatattctt gcttgttctt 240
 tgattgcttg caggaataga cttcgtggt cagggtgatc gtgctccggc gtggtcaata 300
 acctcaagag attggtttag cgattgctaa ggcgcgacgt cctcgcacgt tcatagtcgg 360
 atcgtgaaag tcgtctccag caaatcgata gttatcatct catcgaaaga tcgggacacc 420
 tcccgcccct atc 433

<210> 5511
 <211> 206
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-024-Q1-E1-E10
 <400> 5511

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cgctgcct gcagcaacaa tcagtaatca tgcataaata aataatgggc acaataccaa 120
 agggggccgcc ctaaaggatc aaagcttaat ttcacatgca tgcaacttca aaacccttca 180
 aaagtgtccc ctaatttcaa ttcagg 206

<210> 5512
 <211> 461
 <212> DNA
 <213> Triticum aestivum
 <223> unsure at all n locations
 <223> Clone ID: LIB104-024-Q1-E1-E6
 <400> 5512

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 catagccatt ccgagatata ttgccatgca actttccacc gttccgttta ttatgacaca 120
 ctccatcatt gtcataattgc ttagcatgat catgtagtcg acatcgtatt tgtggcaaag 180
 ccaccattca taattctttc atacatgtca ctcatgagtc attgcatatc ccggtacacc 240
 gccgaaggca ttcatataga gtcataattt gttctaagta tcgagttgta attgttgagt 300
 tgtaagaaaa ataaaagtgt gatgatcatc attattagag cattgtccca gtgaggaaag 360
 gatgatggag actatgattc cccacaagt cgggacgaga ctccagaaaa aaaangcggn 420
 naaaaaaaaa aaaaagcggc cgctctagag gattcaagct t 461

<210> 5513
 <211> 142
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-024-Q1-E1-F3
 <400> 5513

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 cgggcgctcc aaaagattca aacctaactt cgccttcaag ccaactcaaa acccctccaa 120
 aatggcaacc aaattcaaat ca 142

<210> 5514
 <211> 236
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-024-Q1-E1-F8

<400> 5514

cgaggagattc acaggagaga agcgacggag ttagaagttg taaatatgca ttgttgatc 60
gcgacctgaa tgaaataaac gaaataatgc tcttggtcaa tcggcaaaaa aaaaaataa 120
aaaaaaagaa aaaaaagagg acgcacaaga tgatgaaaac agatgatact actgcatgcg 180
acatcatagc tcttccatat tatcaactaa atacacatca caggtcgtcg ttaaac 236

<210> 5515

<211> 136

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-024-Q1-E1-H4

<400> 5515

tgacacataa acaaaatgga tacggaaaaa actcatcaaa aatgtcaaaa aaaaatcggc 60
cccccaaaag gatcaaact aacttaccct tgaatgcaac ttcaaagccc tccaaaattg 120
tcaccaaaat tcaatt 136

<210> 5516

<211> 456

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-025-Q1-E1-A10

<400> 5516

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gcggcgga gaagcagacg agcaagatcg tcggcttcgt gaagatgcac ttcgtcggca 120
cctccttccc gccagctcga gcgaggatc ggttggaacg cagccgcgcg cctgctatt 180
cgtcatacaa cgactacgag tacgcggcgc agtggaacgc tgtggttccg gcgacggcgc 240
cgcccggtga ggaggaggtg gtggaggtgt gcgacgacac ggcggagtgc gggtagctgt 300
gttggtgga ggaggagagg tcgtcgggtg gcgtgccggc gggcgaggac gacggcgccg 360
aggctagtcc ggcggtgaac gagatcgaca ggctggcgga gaagttcatc gcgaggttcc 420
acgcgaagtt cttgctggag aagcaggagt cgtacc 456

<210> 5517
 <211> 442
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-025-Q1-E1-A12

<400> 5517

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ctcctgccac cgatcccgaa ccaggaggga acccggcgcg aggagggcaa aggaagagaa 120
gaggagatca ccgagcccag cgcgcgcaca ggacagcagg cgccgcgatc tcgcacagga 180
gcgagatgg gggtcacgtt cacgaagctg ttcagccggc tcttcgcaa gaaggagatg 240
aggatcctca tggtcggtct cgatgcggct ggtaagacca ccatcctcta caagctcaag 300
ctcggagaga tcgtcaccac catccccaca atcggttata atgtcgaaac tgtagagtac 360
aagaacatta gtttcaccgt ttgggatgtc gggggtcagg acaagatcag gccctgtgg 420
aggcactact tccagaacat cc 442
```

<210> 5518
 <211> 447
 <212> DNA
 <213> Triticum aestivum

<223> unsure at all n locations
 <223> Clone ID: LIB104-025-Q1-E1-B4

<400> 5518

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ggttcatcg acttcagcga gttcatctcc ttctgcaacg ccaaccggg gttcatgaag 120
gacgtcgcca aggtcttctg aatcagttca tttcacctca gccgtccgtt ccaggagccg 180
atccatctac gtacggcttc gtatatcaat ttcagcaac tacctactcc ggtcccgatc 240
cagcctcagc ttcacctgag gccggccta aatttggttg atcaattctt ttgctactag 300
tagtaactag tgatgatcac tgttgcatca tttaattatt tattttatat atcatcacia 360
gtttcctgtg attcctttct ttctatacct tttgtcgat tgcngctcc agctcgatcg 420
aacgattcat gctgctaatt gtttgtg 447
```


<210> 5521
 <211> 443
 <212> DNA
 <213> Triticum aestivum

 <223> unsure at all n locations
 <223> Clone ID: LIB104-025-Q1-E1-C2

 <400> 5521

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gggtccgacat tcacgggtcc acgggatata tggaattgga gttgaggtcg gtggagcgtc   60
aggggggcccc tgatgcaggg gggctcgccc aggggggtan gcgcgcccc acccttgccg   120
acagggtgtg ggccccctaa cgtggatctt tcttcagta tttttttgta tattccaaaa   180
ataatctccg ttgattttca agtcattccg ggaactttta tttctgcaca aaaataacac   240
catggaaatt ctgctgaaaa cagcgtcagt ccaggtagt tccattcaaa tcatgcaagt   300
caaagtccaa aacaaggga aaagtgtttg gaaaagtaga tacgacggac acgcatcaat   360
tcccccaagc ttaaacttat gcctgtctc aagcaattca gttgataaac taaaagtgat   420
aaagaaaaac ttttacaac tcc                                           443
  
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<210> 5522
 <211> 452
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: LIB104-025-Q1-E1-D10

 <400> 5522

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gggtcgacgg gggtcatatc gacaatcaac cgtgatggcg tccaaagtcc ttcttgcaat   60
cctcctctc gccgcggcga cgccagcgtc gctggctgcc atcgatatgg cgcagatgct   120
cgctgacaag cccagtagc cgaccttctt gaggtcctg aaggagacaa aggtcgccga   180
tgacgtgagc cggtcaagt cggcttccgt gctggctgct cccgagaagg ccgtaaagcc   240
actcttgccg gtgccggccg ccaagcagcg gacgatctc cagcatcatg tctcatcaa   300
gtatttcgac cccatccage tgggcgagat gaagaccaac gttgccaaagc tccagaccat   360
gctctccaac acagataagg acatgggcac catcgactac tccaaggaca aggacggcca   420
gatgtaccta cgctccccag gcgccgatag tg                                           452
  
```

<210> 5523

<211> 464
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-025-Q1-E1-D11

<400> 5523

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 agcctcccaa gttttgatat gcaaagttgt tatgatgata gcatgcctct tacttatgat 120
 tatattgatg aaagtgggtc tggaagagtg tcaactttag gaagtgatga ttccactatc 180
 ttgggagagg tctcaatcga ttatgatgag aacaaagttg gtacttatga tgattattgt 240
 gatgaaactt atgctataaa aaatagtgac gattatattt ataaaacttg tcatgattat 300
 gattaccctt tttcttaacg ttactctttt aatgtggaaa caaatttttag tgttcaagtc 360
 tcttatgata ctcccgctgt tccgaatgag aagaattttg cttatgtgga gagtagtaaa 420
 ttttctatgc ttgtagatta tgaaaagaat gcttttagtg ctgg 464

<210> 5524
 <211> 466
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-025-Q1-E1-D12

<400> 5524

tccagaattc ccgggtcgac ggggaagcgg tcgttcgatg ccgagacgcc gcggcggcgg 60
 gagtcggcac gcagcaacga ggcggtcgag gaggcgcgga tcaagctgct ggagctgcgg 120
 caggtgaaca aggtgaaggc gctcgtcggc gccttcgaga ccgtcatgga cgacaaccaa 180
 agccccaccg ccgcccga ggcggggtc aacctcggcg cctgaactac gactacattc 240
 gatgagcatg aagctcgatc gcgtgcgcct cctcctttat ccccgctact ctttaacac 300
 ccatcaaccc aatttgctgt cgtcgcacac ttatctataa ttacgggtatc gcttatattc 360
 tgcaaggagg aagatgatgg aggggttatc atcatgatgt aataataata atgatcatgg 420
 aggaagatgg tgtattttac tttatactat cgtctacacg atcaat 466

<210> 5525
 <211> 458
 <212> DNA

<213> *Triticum aestivum*

<223> Clone ID: LIB104-025-Q1-E1-D5

<400> 5525

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attccccgggt ccacggggga ctggcaatgg cgcgcgccgt cgccgtcggc gcgttccaga   60
ggctcaaggc gcgctggggc tgctccaga ggcgcaccga ggtcaagggt gacgaccttt  120
ccgtcatgct cggcgctgc tgccgctcc acaacatctg cgagcgcagc ggccaaccct  180
tggacctcca gctgctgcag ggcctggagc tcgacctaga cgacgacgac gaccacatgg  240
tcgccaatga ccccgctgcc tcccccgccg ccgagcaaat gcgagacacc atcgcccaca  300
acatgcttca ccatggcaac aagctggccg gcgctgggac gtcttcctac aacctacaag  360
caattactgg tttccatttc ttgaccgggt cattaaccg attcaaagtt aaaggaataa  420
ttaaaggagt agagcaccaa aattcatttg ttattttg                               458
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<210> 5526

<211> 457

<212> DNA

<213> *Triticum aestivum*

<223> unsure at all n locations

<223> Clone ID: LIB104-025-Q1-E1-D8

<400> 5526

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gggtccacgg gataataatg gtgcggatgg cgatgttccc aagagtgggt ctgtcgaaga   60
cgaggagcat attgcttctc tgaggcctaa aagatcaaag agactagtga ggagcacggg  120
tgaggataag gaatccgttg ctgcttgatg tgttgagaaa cctgcagatg cagctgaaaa  180
caatgacaac aatgatgcag aagagttgca atacccttca gctagtggga cctactgggt  240
tgacctgatg agaacataag atgcgaatgg caagactcta atttttgggt tcgagtanga  300
gcatcaaaga tggcaccag aggaggagct ctggatctgc ttaagggtgt acgcagttca  360
ataagtactt taactgtgct gtgcagcttc ttttcagaaa cctgggactg caacttgggt  420
gcagttgcag tgagctgagc ccaatgatgg ctgttat                               457
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<210> 5527

<211> 413

<212> DNA

<213> *Triticum aestivum*

<223> Clone ID: LIB104-025-Q1-E1-D9

<400> 5527

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cattatgcta cattgtactg cctgtaactt gtaatggagt ctggagcgat tcagtgtgtc 120
tgtcagttgc ggtgcggcgc atccgcccga cggccatgat tggcgtgtca gtctttcgac 180
acagtacgtt attcgcata gtgtgtgtgt gtgtgtgtgt gtgtgtattg ctgtgaaaaa 240
aaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaagaaa aaaaaaaaaa 300
aaaaaaaaa aaaaaaagcg gccgcccaga aggatccaag cttacttacc cttgcatgca 360
acttcatagc ccttcaaaag tgtccccaaa tttcatttca ggggccgtct ttt 413

<210> 5528

<211> 450

<212> DNA

<213> Triticum aestivum

<223> unsure at all n locations

<223> Clone ID: LIB104-025-Q1-E1-F12

<400> 5528

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ccaccgccgc gaaccggaga gcgaggccga caccgccgcc gcgatgaggg ccaagtggaa 120
gaagaagagg atgaggaggc tcaagaggaa gcgccgaaag atgaggcagc gatccaagta 180
ggccgtaagc atcatcttgc atccaggcag cggaactctg aggggtgatg gcattgtcta 240
gtgattcttg atttgttctg ttgttttggc tgcggaagtt gcttttacct gtgtttggtc 300
aaatttagtt gtttaatact agtctggcta tgttccagta ctgagtttta tgtaatgtga 360
ggattatatg tgtttgtgac tgaattttat gcacctatta tccttgagga aaaaaannnn 420
aanaaaaaa aaaaaaaaag cggccgctct 450

<210> 5529

<211> 450

<212> DNA

<213> Triticum aestivum

<223> unsure at all n locations

<223> Clone ID: LIB104-025-Q1-E1-F9

<400> 5529

taccagtcca aaattcccgg gtccacctca ggtatataat cgtaatggta ggctgcacc 60
accacctcag gtacgagatg atgtccatat tcctaaactg aaattgaata ttccaccatt 120
tgagggtaga tatgttcctg atatatatct tacttgggag ttagaaactg aacaacgatt 180
tacatgttta caatattctg aggagagacg agttgctgct gctgtttgtg ctttcaactag 240
ttttgcatgt gtatgggtgt ctgaacattg tagattatat cctattccaa ctacttgggc 300
tgctttgaaa agtgctatgc gtacgcgttg ggtccacca tattaccaac gtgaattgct 360
tcaaaaattg cagcgtttaa gacaaggga aaattctgta naagaatatt atcaggaaag 420
tgaaacttgg atgattgat gtggtattgt 450

<210> 5530

<211> 459

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-025-Q1-E1-G10

<400> 5530

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aaccaacat catggatgtt cttactctg cattccttaa tcttcattct gcatgtataa 120
tagcggacac aacaatatag ttaggacata tatatagtgc aggcaatatg aacgagatgg 180
ggtagaaata aatcacttac agaacgtagc aactgatgat agatttgtcg agctcgcgca 240
gattgaaaag ctggaacaat tcaactcagat gaatttgtac atagtaatct ttgaagtgat 300
gctcatatct aacttcaca taaatatatt ctttggcggt tttatttttt atgtaaccct 360
tgtaccattt cagcagacct ttcatttatg gaggtagatc ctgttctctg gcaggctcga 420
cgagaggccc attcttcaca tatgtaatta ctacctct 459

<210> 5531

<211> 290

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-025-Q1-E1-H11

<400> 5531

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aagtactatc cccgctttaa cctggaagat acttcaagtt ataaggactt ggtcgaacag 120
atcatcaaat ttccttatct tattagagaa ggctatttc ttcttttagtg tcggtgatct 180
tcgattcact ggccgtcgaa taactcgatc ttactattg aaaccttctt gtttcctatc 240
ttactttcgt tgatgtatat cctactttcg ccacctggat tgatctccat 290

<210> 5532
<211> 473
<212> DNA
<213> Triticum aestivum
<223> Clone ID: LIB104-026-Q1-E1-C5
<400> 5532

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agttgctcag cgacaccgaa cacaaggct ccagagtcca agtggcatgc ctggagatgc 120
cgaggaaggt tatgcggtta gcagcgggtg cgccaatgga accaccccggt accctttcac 180
cttggagggc gacgacgagg atgacatggc tctggccgga ggggaagggg cgggtatgct 240
tagatcagac aggcgtcgcc ggcgacgcg taggaaccgt ggaagactgt ttttagattc 300
taattgagaa ggcaggggct ctgtcaccag agtacatgca cagctgattc cctgggtgcct 360
ggcattcatc aattccaacc aaaatttact tgttcatgat cattgtacca aagtagtttg 420
tcttaacctc agtcatcat tgctttccat caacctggtt tcattttcac att 473

<210> 5533
<211> 475
<212> DNA
<213> Triticum aestivum
<223> unsure at all n locations
<223> Clone ID: LIB104-026-Q1-E1-D8
<400> 5533

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gttaatcatg catttataaa acggtaaaca tgtactgtat aaaacaatgt ttctcatgta 120
aacaaaaaat atagaggggtg tatgtaaaaa agtccacata aaaattacta caaatgtta 180

atcatgtatt aaaaaaatgt taattgtgtg ttttaaaaaa tgctcctgat atatatggaa 240
aatttacaat gtgtataaaa aagttgacat caaaatatat atttgggaaa caaagtgtaa 300
tcatgtgttt gaaaattttc aaatgtatgt gaaaattgtt gctgtatacc aaaaaattaa 360
tgtgtacgaa aaagaaaata tgcatacaaga cttatatatta aaaaaaatgt tgatcatgta 420
tttaaaaatt gttaaacatg tattaataaaa tatacccgat atatacgaaa aatat 475

<210> 5534
<211> 443
<212> DNA
<213> Triticum aestivum
<223> Clone ID: LIB104-026-Q1-E1-E1
<400> 5534

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gagcctaagc ttgggggatgc ccaaggcacc ccaagatatt caataatagc caaaagccta 120
agcttgggga tgccccggga aggcatactc tctttcgtct tcgttcattg gtaactttac 180
ttggagctat atttttattc gccacatgat atgtgttttg cttggagcgt cgtgtattat 240
attagtcttt gcttttttagt ttgcaacaat catccttgct gtacacacat tttgggagaa 300
gcctttttga ttagaatttg ctagaatact ctatgtgctt cacttatatc ttttgagctt 360
gatagttttg ctctagtgtc tcacttatat ctttttagagc acagtgggtat cttaaatttg 420
aataaattgc tagtctctca tgc 443

<210> 5535
<211> 439
<212> DNA
<213> Triticum aestivum
<223> Clone ID: LIB104-026-Q1-E1-E8
<400> 5535

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ttgatgaatc tatggctagt aaaatagttt ataatccata gagaagttgg aatacagtag 120
ttttaacacc aatataaatt aagaatgagt tcattacagt accttgaagt ggtcttttgt 180
tttctttcgc taacggagct cactgagttt ctattttgag ttttgtgttg tgaagttttc 240

aagttttggg tgaattcttt tgatggatca tggaacaagg agtggaaaga gcctaagctt 300
 ggggattccc atggaacccc caagataatc caaggacacc aaaaattcaa agcttgggga 360
 tgccctggaa ggcattccct cttttgtcca cttccatcgg taatttactt ggagctatat 420
 ttttattcac caacatgat 439

<210> 5536
 <211> 394
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-026-Q1-E1-F1
 <400> 5536

tgacgggtccg aaattcacgg gtccacgggg aagaaaggga agaaacgccg gaggaggtct 60
 aaaggaacta gccaggcaac ggctgaaggt gcttctggag agaagaaaaa gaggaagagt 120
 cggaacaaaa aagttgaggc tgaaaatgag aatgatgatg aagatgatgc tggtcctgct 180
 ggttctgagg actcatcaat gggagaaagt gatgaggact ctgaagtgaag agaagagacc 240
 aagagtgatg aagagcctga agcaacaccg gtgaagaaaa agtcaacaga tggtaaacaa 300
 ggaaagaagg aagctggatt caaggcaaag gaaaaggatg catcggtgaa gaagactcct 360
 actaaatctg taaaaagcgt gtcaaagcca aatg 394

<210> 5537
 <211> 453
 <212> DNA
 <213> Triticum aestivum
 <223> unsure at all n locations
 <223> Clone ID: LIB104-026-Q1-E1-F11
 <400> 5537

cgggtccgaaa ttcacgggtc cacgggccgc taaacataga caaatattaa ggaaaatgga 60
 gcttggaggt cgagcttggg gaggagaaag cttaagtagt gtggctcggg cattccatcg 120
 aacacctcat gtgcatanga ggtgagctag agcaccacaa agctctcccc tcgccggcca 180
 cganaaatag agcactgtga gtgctctgct cgcgggcgag gggtagatat aggcaactaa 240
 ttggteccgg ttcgtgccac gaaccgggac taaagggcag cctttgggtcc cggttcacgc 300
 caccaactgg gaccaatggt ggtggggccag gagcgagacg cattgggtccc ggttcgtcnc 360

accaaccgga accaataggt ccagccgaac cggaacaat ggcccacgtg gcccagtcng 420
 ccccggggt cacgaaccgg gttcaatgcc ccc 453

<210> 5538
 <211> 377
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-026-Q1-E1-F2
 <400> 5538

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 tctcatcgcc gctatgggtt catgacgaag acaattttat cttaagttag aaccgcagca 120
 acaattgatg taatataact ctgcagtact ttaagatgaa acatgctatc ttctgtgtt 180
 gatctttctt tgtatgtata caccctacgc ccagtgggat aggggttgccg ggcgcgtaaac 240
 ccatgctatg gcgcttcgag gacggatcct tagcagcctg ccggggggcgc ttgctgccgg 300
 aaaaaccaac ttgccactct tagcggggcc gcttgagctg ttgagcggac tcaaaataga 360
 acaaggacgt tgctaata 377

<210> 5539
 <211> 459
 <212> DNA
 <213> Triticum aestivum
 <223> unsure at all n locations
 <223> Clone ID: LIB104-026-Q1-E1-F6
 <400> 5539

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 taccgctgag gcaacccgtg aggagaatgt gtacatggcc aagctcgccg agcaggctga 120
 gcgttatgag gaaatgggtc aattcatgga gaaggtggcc aagaccgctg atgtaggtga 180
 gctcactgtt gaggagcgca acctgctctc tgtggcttac aagaatgtga ttggtgcccg 240
 gagggcttcc tggaggatca tctctccat tgagcagaag gaggagagcc gtgggaacga 300
 ggcctatgtc gcatcaatca aggagtaccg taccaggatt gaaaccgagc tcagcaagat 360
 ctgtgatggc atcctcaagc ttctggactc ccacctgtgc ncctctgcca ctgcagcaga 420

gtccaagggtg ttctatctga aaatgaaggg tgactacca

459

<210> 5540
<211> 184
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-026-Q1-E1-G12

<400> 5540

aagccaagta aattaacaaa aacaaaaaaaa agtagttaaa ttggggacgt caaaaatggt 60
tcggatttaa ataaacctta aatgaaaaaa aaaaggggcy gctcaagggg ttcaaagttt 120
aatttcgctt gaatgcgatt taaaacctct tcaaaggggt aacctaggtt aatttcaagg 180
gcat 184

<210> 5541
<211> 417
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-026-Q1-E1-H3

<400> 5541

gggccgaaat taccgggtcc acggcgcaga ggtgtaagaa acagaagggg tgctctgttt 60
ctcacatcga gtgctctgtc gagcagaact actgatcgtg atcgccccga gcacgggcgg 120
ggatatatt gaccatcgag tgtcatgttg ttctcgctgtg ctgggggtttt gttgtcgggg 180
ttttgtcgtc agatttcacc agctcgtttc tttctcgggt tctttgtttc tttcacacgg 240
taaatgcagc taccactcga ttcttggcgt ttgttggttg taaagaagat cgtagcttgt 300
aagtaaaatc gtttgcagtg taaaatgtac aaaggtagca tgggaaatgc ttaacagagg 360
agtcttggtc ttgcactcaa aaaaaaaaaa aaaaaaaaaa aaaaaaaagc gggcgct 417

<210> 5542
<211> 53
<212> DNA
<213> Triticum aestivum

<223> unsure at all n locations
<223> Clone ID: LIB104-027-Q1-E1-A12

<400> 5542

agtcgtatta aaatctgcgn ctcgtgtgtg tgttctttct gtggtgcggt gag 53

<210> 5543
<211> 393
<212> DNA
<213> Triticum aestivum

<223> unsure at all n locations
<223> Clone ID: LIB104-027-Q1-E1-A4

<400> 5543

gggtcgacgg ggaccacaag gagaagaagg acaagaagaa gaagaaggac aagaagcacg 60
gcgagggcca caaggacgac gacggccacg gcagcagcag cagcgacagc gacagcgact 120
gagccagctc cggccgcgct ccggcagcag cgtgcagtgt aggcgagatc gatgaacgct 180
tgggagaagt gtggcataca tatatgttgc agggtttggg gctgtgtgta gcatatgtat 240
gtaatgcgtg acatgtctca tggatcttgt gatgtataat aattagccgg ctgcactgca 300
ctgcacggtg cttgtaataa taacgttaat gaatcatgtt ggcattgatg tgaaaaaaaa 360
aaaanaaaaa aaaaaaaaaa aagcggccgc tct 393

<210> 5544
<211> 371
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-027-Q1-E1-A7

<400> 5544

cgggccgacg gggatcttga gcaaataatca caccaaagtt tgatgatgac aaaaggctat 60
gaggagatgt ctattgcgta ggtgcaaaat ctccatcgat acagatcgcg ctaggtgcca 120
gtttttccgc agagaacggg ccccgctggt aatgtgctgc aagattgatt gacagatctt 180
aagcaggctc tcgcaagtcc tcacgccggt gatgatcagt ttgtcagcca gatacataag 240
gatcgtaata gaaacggggg caatgcctaa caaccagtaa cgtagattgt caagagacgg 300
cgacacagct catcatcatt ctcttgata ctctgcacag gctagtccac ttttccacag 360
aagactcaat g 371

<210> 5545

<211> 468
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-027-Q1-E1-A8

<400> 5545

gtaccggact agaattcccg ggtcgacggg atgatgatag ttgatttgat tctgctgaaa 60
 aacagaaact ttgtgctgac gaatttagtt ttgttaaatac acagaacttt ttcattgatt 120
 cgtttttctt ctgatcaata gacaaatctt acaggacttc ctattttggt aggattttta 180
 gagttccaga agtttgctgt agttatagat ttctacagat tgttctgttt ttgacagatt 240
 ctgtttttcg tgtgttggtt gcttatcttg atgcatctat ggctagtaaa atagttaa 300
 aaccatacag aagttgggat acagttggtt taacacccaa ataaataaag aatgagttca 360
 ttacagtacc atatgtggtg gttttgtttt ctttcaacta cggagcttat aagatttcct 420
 attgagtttt gtgttggtgaa gttttcaagg ttttggttaa agctttta 468

<210> 5546
 <211> 391
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-027-Q1-E1-A9

<400> 5546

gggccgacgg gtacggcggt tcgataacta atagattttt gcaataagta tgtgagttct 60
 ttatgactaa tgttgagtcc atggattata cgcactctca cccttcacc attgctagcc 120
 attctaatac cgcacacctt tcgccggtat catacaccca ccatatacct tctcaaaac 180
 agccaccata cctacttata atggcatttc catagccatt ccgagatata ttgccatgca 240
 actttccacc gttccggtta ttatgacacg cttcatcatt gtcattattgc tttgcatgat 300
 catgtagttg acattgtatt tgtggcaaag ccaccgttca taattctttc atacatgtca 360
 ctcttgattc attgcacata ccgggtacac g 391

<210> 5547
 <211> 406
 <212> DNA
 <213> Triticum aestivum

<223> unsure at all n locations
 <223> Clone ID: LIB104-027-Q1-E1-B7

<400> 5547

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aattcccggg tgcacgggga ggaggaggcc acgtcgggag ctgagggggcc ttcagctcat 60
gtagtttctt tgctcgagtg acagattgtt ttgttttgtt ttgttttctt tgctcgtgtt 120
gaaatacagg tgttgatgat cgtgacaact gtttttcttc atttaggggc aaatgtatgt 180
gtggctgcag tccccctcta tattgacatg cgatctattg tatttatttg ggtangagg 240
gtattttaagg atcactttgc cctcaaaaaa aaaaaataaa aaaataaaaa aaaaaaaaaa 300
aaaaaaaaaa aaaaaaaaaa aaaataaaaa ccaaaacaaa aaaaaaaaaa aaaaaaaaaa 360
aagggggccgc caaaagggtt caaaccttac ttacccttga atgcaa 406
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<210> 5548
 <211> 450
 <212> DNA
 <213> Triticum aestivum

<223> unsure at all n locations
 <223> Clone ID: LIB104-027-Q1-E1-B8

<400> 5548

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gtaccggact ggaattcccc ggtcgacggg gaaaatgctc aaatgcatga gatgaacacg 60
tatgcaaatg cacatcacat gacgacatga taagagatgc atggtcacga caacagcaca 120
cggtgacaaa gagccgaacc cgggaaaata gattaactta acgccgaaa cggcaatagt 180
tggcgtacat atacggaacg ttacatccgg ggtgttacac ggtgtcccaa cttagcccat 240
cacaagatct cacggtcatt gaaggatatt ccttctctca agacatccga taagccggat 300
ccggtaacag acatctcaat ataggaaaca tgtcagcata gccagccgaa tgtgccgaca 360
tatcccgata tgagctgcac atatctcggt ctacaggcac actcagactg tccaaacctc 420
cggtaaggca tcccanaatt gcccttggtg 450
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<210> 5549
 <211> 408
 <212> DNA
 <213> Triticum aestivum

<223> unsure at all n locations
 <223> Clone ID: LIB104-027-Q1-E1-C2

<400> 5549

cggtccagaa ttncgggtc gacgggtatg agaaatatca tggatactac ggaggggaagg 60
aggaatcgag gaaatccaac tacaccgatg tggttaataa atattatgat cttgctacta 120
gcttctatga gtatggctgg ggtgaatcct tccactttgc tcacaggtgg aatgggggaat 180
ctttaagggg aagcatcaaa aggcacgagc actttctggc tttacagctt gagttgaaac 240
cagggatgaa ggttttggat gtcggctgtg gaataggcgg gccattaaga gaaatttgca 300
gatttaacct caacctcagt tactggattg aacaacaacg actaacagat aactagggga 360
aaagcgctta atcggtcggg angacttggc gctacttgtg attttgtc 408

<210> 5550

<211> 353

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-027-Q1-E1-C3

<400> 5550

ggtccagaat tcccgggtcg acgggccctt ttgggtgtta atcacatagc aatgtgaact 60
agattattga ctctagtaaa ccctttgggt gttgatcaca taatgatgtg aactatgggt 120
attaatcaca tgcagatgtg gggattgtgt ttaaatacaca tagcgatgtg aactagatta 180
ctgactctag tcaagtagag gcatactaata gacactatgt ttgtctatgt attcacacat 240
gtattatgtt tccggttaat acaattctag catgaataact aaacatttat catgatagaa 300
ggaaacaact aataacttta ttattgcctc tacggcatcg atccttcaat ctc 353

<210> 5551

<211> 201

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-027-Q1-E1-C5

<400> 5551

aattccccggg tcgacggggg aatcaacaca aaacaaaaac gaaaaaataa gataaagaag 60
aagagtcaaaa aatgcataaa aataacctata catacaaaac aaaaaatcaa aaaaaattcg 120
gccgccccag aggttccaac cttaattacg cttgaatgac atctcttgac gcttcaaaat 180

tttcaccaaaa tttcaattca a

201

<210> 5552
<211> 469
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-027-Q1-E1-C6

<400> 5552

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gcccctggca gaacacaatg ttactgtcag gtcgccatcg gttatatcga gtgagtgttt 120
gtggctggcc gagctggctct gagaactgct gaatgcaatc tatecttaaa tttggtaaaa 180
aaaaaaaaaa aaaaaaaaaa aaaaacaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaata 240
aaaaaaatga aaataactaa ccataataaa ggaaaaaaaa aaaccggcaa aaaacaaaaa 300
aaggggcccc ccaaaggtt caaagctaag ttacccttca atgaaagttc aaacctcttc 360
aaaggtgccc ccaaatttca tttcaggggc cttcttttaa aaacttggtg acggaaaaaa 420
ccctgggttt acccaaatta aacccttta aaaaaaaccc cctttttcca 469

<210> 5553
<211> 456
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-027-Q1-E1-C7

<400> 5553

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gttgagaagc tgattggcag gatagtgaag cggctgaagc ccggtgggca tattttcatc 120
agggaatcgt gcgccacca gtctggggat tccaagagga aagtgaaccc gacgcactac 180
cgggagccga ggttctacac caaggggttt aagggaaggc actcctaaga ccaagaaggg 240
aattcctttg agctttctct ggtaacttcc aagtgcattg gagcttatgt gaaaagcaag 300
aagaaccaga accagatatg ttggctgtgg gagaagggtca agtgacaga agacaaaggc 360
tttcagagat tcttgacaa tgtgcagtac aaatccactg gaatcttgcg ttatgagccc 420
gtgttttggg aagggttatg ttagcaccgg tggatt 456

<210> 5554
 <211> 466
 <212> DNA
 <213> Triticum aestivum

 <223> unsure at all n locations
 <223> Clone ID: LIB104-027-Q1-E1-D2

 <400> 5554

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 gcaagttaca caagctgagc aaaatcagag gcataatttg tttcatacga agggagttgt 120
 gaaggaacgt tctgttcacg tcatcataga tggagggagc tacaacaact tggctagcat 180
 ggagatgggtt gagaagctat ctctcaccac aagacctcat ccacatcctt actacatcca 240
 atggttcaac gacaacggca aggttaaggt aacatgtatt gttcgtgtgc attttagtat 300
 ctctacataa tgctgattat gttgattgtg atgtgggtacc tatgcangca tgttccttaa 360
 tacttggtag aacatggcaa tttgataaaa attctgtaca ccatggtaga atcaatcagt 420
 atactcctgt tcataaggac aaaaatatta ctttgcttcc tatgac 466

<210> 5555
 <211> 472
 <212> DNA
 <213> Triticum aestivum

 <223> unsure at all n locations
 <223> Clone ID: LIB104-027-Q1-E1-D5

 <400> 5555

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 cctctggtgg tgaccgcttt ggtgcagaca ggtatggtgc agctccagac cgttatgcac 120
 caagtgggtgg tggaggtggc tatggcaggg agcgggagag aagctacgag agagatggaa 180
 ttcgtggtgg tggcgcttat gacaggagtg gccaagggg cgggtgcaagc tatgacaggg 240
 acggccaag gggcggcatc ggtggtggct atgacagggg cgggtccacgt ggaggcggcg 300
 ccgactatgg cagcggaggg cctgctcgct acgagggagg aggttacagg gagaggcctg 360
 cgccgtatga ccgccccagg ggaggaggac gcttcgacga ccgctattag tgacctgttg 420
 ctgcantcga gctatgtatt tgcgttttaa ctctttcaag tttggcatgg cc 472

<210> 5556
 <211> 458
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: LIB104-027-Q1-E1-D8

 <400> 5556

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 tcgtaacctt ataaccacga tgtacgatcg tgttggtaca caatacgtat gagaaacaaa 120
 tcacaaggaa aaaaatgcta cccacagcag ccgatctctc cttcctcccc ccgtcgacgg 180
 gaagctcgcc ggcggcgagg tggcacgggc gacggacgtc ggaggcgaaa ccgctcgacg 240
 aaacagaagg agggagcagc gctgacgag gcgttgcggc ctcgggcgta cggcggcgag 300
 atcgatgctc tgtcgccggc ggcgggttgg ggacgggtggc gagatcgatg ctccagccgc 360
 catcttgctg tttccctttc accgaggata tgcatttgcg aacgtgattt gacgattaca 420
 acctccaac cctcccaggg ccggcccata aagacgga 458

<210> 5557
 <211> 416
 <212> DNA
 <213> Triticum aestivum

 <223> unsure at all n locations
 <223> Clone ID: LIB104-027-Q1-E1-E11

 <400> 5557

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 aatggggtag tgctagtga cctcgcaaat ctgaatttag aaattttctt gctagtataa 120
 ctgtggggga atctagagat atagcagaag ctaccatagg gagcattcat tttcctgcta 180
 tacattattt tgctctcttc ataggtaggt gcataaatgg taaagatgaa gcatgtcaca 240
 tgtgtgtccc tgaccttcag tattcttagg agtgctgtgt taggagacaa atcttataat 300
 ttgggagcca ttgttgacg taggttgc ataatagtt ttaatggaga tttctttgca 360
 ngaatttatg caaccgctt agctaatttc ctggtgtgga catacgtgat gatgat 416

<210> 5558

<211> 410
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-027-Q1-E1-E12

<400> 5558

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tttatccgca cccagtcgct agttgaacta cccatcaagg gtaggacgta cacgtggagt 120
aacatgcagg atgacccttt gctgggtgcaa ttagattggt ttttttcttc agtgactgg 180
tctttcttct accctaatac cactgtatcg cccttgggca agcctgcttc agatcacgtc 240
ccctgcgtca ttggcattga tttgtgcac ccaaaaagca aggtgtttca ttttgaaaac 300
tactggatac aacattcagg gtttcacgag atagtgaat gctcttgaag ccaaccttgt 360
catgcggtca actcagcggc tttgatctgt agaaagctaa agaagctgcg 410

<210> 5559
<211> 404
<212> DNA
<213> Triticum aestivum

<223> unsure at all n locations
<223> Clone ID: LIB104-027-Q1-E1-E2

<400> 5559

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caagcaataa taaaagtaag aaaattagac aagtatctat ctaaagtaag aatttttctt 120
tcaggagaag attagaacaa gaggtcatc acggtggtgc aagcgacgag attcgcgccg 180
gcatcgacg gccgtgaaga cggggacngg acgtgacaga ccgctaaacc tagacaaatc 240
tcaaggaaaa tggagcttgg aggtcgagct tcgagaggag aaagcttaac tagcatggct 300
cgggcatttc attgaacacc tcatgtgcat aggaggtgag ctagagcacc caaatgccct 360
ctcctcgccg gccagaaaaa atagagcact gtggagtgcg ctgc 404

<210> 5560
<211> 410
<212> DNA
<213> Triticum aestivum

<223> unsure at all n locations

<223> Clone ID: LIB104-027-Q1-E1-E6

<400> 5560

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acgtacacag aaagtgaata tagaagtgtt caagactgtg aagcgggagg ttcctggtat 120
atctacgttt cattgtactt agttaagttg atgttactgt tgttttttct cgctgccgcc 180
atgccatgaa caggcgaggc aggcagcttc tcaaacttgt gttgttgtaa cttgtatgat 240
gggagcttaa gtacattact ttgtttcata aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 300
aaaaaaaaaa aaaaaaaaaa aaaaaaagaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 360
aaaaanaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaggg ggccccccaa 410

<210> 5561

<211> 428

<212> DNA

<213> Triticum aestivum

<223> unsure at all n locations

<223> Clone ID: LIB104-027-Q1-E1-E9

<400> 5561

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gccttagcaa tcgctaaacc aactccgaga ggttattgac cacgctggag cacgatcaac 120
ctgaccacga ggggtctgttt cctgcgagca aacgaagaac aagcaagaaa ctaagattgc 180
aatctggata ttgcgaatat aagatgaaag ctttattgat caaggtgggg ttctgtgacg 240
cctttgtctg gtcgttgaac acaaacgaag tacgcgaagt tgcagctatg gcgaactttt 300
aatctaaaca aaaccggaag tctaaacgat gccctaaggg ctctatatat ggaggaagag 360
gggggaatth cgtggccctt ggtggagggg tccgaaatca ccctatctct tgttttccca 420
cacatacg 428

<210> 5562

<211> 265

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-027-Q1-E1-F1

<400> 5562

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tctcttgtaa ataccaacaa gctactcacc ttactggtec aaacctacta gttgctctaa 120
atgtttaaaa taactttaca attctgtttt gatacaaaaa aaaaaaaaaa aaaaaaaaaa 180
aaaaagcggg cgctccaaaa gattcaagct taagtaagcg ttcaagcgac gtcaaaactc 240
tcctatagtg taacccaaaat caatt 265

<210> 5563
<211> 370
<212> DNA
<213> Triticum aestivum

<223> unsure at all n locations
<223> Clone ID: LIB104-027-Q1-E1-F10

<400> 5563

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gcactgatgg tgaaggtacc accagtgcc a tctccttgg cggacacctt cttggtctct 120
ggtggagctg ccattgtctt cttacacttg ccggtggagc tcgatgggtgc gtccccgacg 180
gtagcgcagc actccaaaga ggtgcgcttg ccggagtggg catccgaact cttgccggac 240
ttggtcttct tcttcgccct gggagcttca acagcaagtg acttgcgatc tgttgcggtc 300
gctgcttcnc ggtagatctt gtcggcgagc ataagagcat ccttcttgtc gccagggaca 360
gagatgacac 370

<210> 5564
<211> 329
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-027-Q1-E1-F11

<400> 5564

gggtcgacgg ggccgtcgat catgtctgac taactcccgt cgcttctgct ctccacatcc 60
tacgttaggt actgaagccc gtagataact tttccgccca ggtttagaac gtcgctgcaa 120
acactacgta tgaaaattga taaatgagat agctcctagt gatgtttctc gctgaactgc 180
tgcgatgttg gacactttgt cagcgacaag gagttatctc ctacgcgacc catcgtggta 240

ttgtgtacat ttgcttaagg ttttgcttat cgttggtatc atctatggta tgcaattcat 300
gggtcggcaa tcataactca tgcaggagc 329

<210> 5565
<211> 468
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-027-Q1-E1-F4

<400> 5565

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cctgtagttg taatcattgt tatggtagaa cttgtagtgt aagacaagta tagttgagag 120
tccgagccgg acactcttat gagccggccg ggactctgag ggctgctggg cgtcagcctc 180
cctatataaa gggacgaccc ggcagcgggt tagaggcgag aacaatctca tcgagagctg 240
ggatagcaag ttttagttccc tggatgatcg aaccctaagc aataccatct caactggatg 300
caggctttta ccttcaccgt aaggggccga accagtataa accctcgtgt tccttgctc 360
atttaacccc ttcaagcttt cctagttgca atgggtccac gactaagtcc tagctcgatg 420
acaatcggcc gtgacatttc cacgacagtt ggcgccacc gtggggcc 468

<210> 5566
<211> 446
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-027-Q1-E1-F6

<400> 5566

aattcgcggg tcgacgggct ggtgaacgcg ccggggctcg tgattgacgt ggtgcgcgac 60
gccaaggaga aggaggcgga gggggctgag ttccggctgg aggacgagat cgaccatgtc 120
gccgacgtcg tcatccgccg gatccacaag cagctcaagc tgcacaagct cgagtcgttc 180
acgaggttct gcgagatgat ggagaggagc gcttgatcca catccctaga agcagatccg 240
cctccagtcc agtgaggtat tatgcataag tatgcaactg gccagctcc atcacacct 300
aagccaggat tatgtctaac ttgatccgag acccatgcat gtgagtagaa ggaagagata 360
catccaggca agaagatgct tatcttctgc taaggtttta gtggggaagc caatgggtcaa 420

caacttggga ctttactcat tacgta

446

<210> 5567

<211> 371

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-027-Q1-E1-F9

<400> 5567

cccggtcgga cgggcacccat caaaaacgtg ttcattgctga ccaggtacat accgttaatg 60

tagttgagggc tgacggggat cagatcgag tcaatggggg tgatgcttgc caccctacga 120

tcattatgct gcggtgacatg ccatttctga agatcaggcg gcatcagcaa acaaggagct 180

ggcttaaaaa gctccggcct gagggttttg agtaaaccgt acagccccga cgagcacgcg 240

gcaagcggca tgggtactgag attatccaca cgcgaaacaa tgagcttgat tacctctgtg 300

gggagcgaat tccagccact cttttggcga acgctgcttg gttctgccat tggtactgct 360

tgggtttcgg a 371

<210> 5568

<211> 413

<212> DNA

<213> Triticum aestivum

<223> unsure at all n locations

<223> Clone ID: LIB104-027-Q1-E1-G1

<400> 5568

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ngcaaatttc gttgaatttt ggcattgggc aatgttattg acagaaaaag gtgtcaaaaa 120

agtttggggc caatgatgca aagataaatg acatttcctt ctcaaaaatc cacttanggc 180

agaatgagaa aaaggaatat ttgtgaatta tctttgatga tgccaaggaa ggtttttgac 240

atatctatgg aagatatgac ccaaacaaaa ttttgagaac tatttgggaa tttggggagt 300

gacggaaaat ataggttggt tcacaaacta atggcaaaaa tgatgattcc tttaatagaa 360

aaaggaatat tccaataaaa aaaatattgg gaatggccca agatgaaaat gac 413

<210> 5569

<211> 401

<212> DNA
 <213> Triticum aestivum

 <223> Clone ID: LIB104-027-Q1-E1-G10

 <400> 5569

 ccggtctagt attccccgggt cgacgggtcg atacatcagg ggaggcaaat tgagggggagg 60
 catgatgggt cctaatagaga ggcacttttg tatctggaat ggagtcacgg ttcatactc 120
 tgttattgca atttttattc aagcagttgt tgaccaggg agccactgtt tttttatgta 180
 cgttgggttc aggcgggaat atctatgata gcccacagtt atttgtatgt gagaagcatg 240
 gacagacata gagatgcagg tccgttgata tcaactgaggt ttgtctttaa agcaaagtgg 300
 aggcacgcat gtggcttttg tgctggccga accgtgcttc ttttttctt tagtcccat 360
 gtagtatttg cacgataggg tcactttgtt tgcttctct c 401

<210> 5570
 <211> 408
 <212> DNA
 <213> Triticum aestivum

 <223> unsure at all n locations
 <223> Clone ID: LIB104-027-Q1-E1-G11

 <400> 5570

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 caagcaatac aatagtaaga aaattagaca agtatctatc taaagtaaga attttttttc 120
 tttcagaaag aagataagaa caagaggctc atcacggtgg tgccggcgac gagatcggcg 180
 cgggcaatcg acggcgggtga agacgggaat gggacgtgac gggccgctaa acctagacaa 240
 atctcgagga aaatggagct ttgaggtcga gcttcgagag aagaaagctt aactactgtg 300
 gctcgggcat ttcacgaac acctcatgtg catangaggt gagctagagc agcacaagc 360
 cctcccctcg ccggccagag aaaaacagag cactggagtt gctctgct 408

<210> 5571
 <211> 423
 <212> DNA
 <213> Triticum aestivum

 <223> unsure at all n locations
 <223> Clone ID: LIB104-027-Q1-E1-G3

<400> 5571

gggccagaat tccccgggtcg acggggggaag cgattctgca ggcggtaggg caagaacccg 60
gtcaagaatt ggagggcgag gcggaggaga gcgcagatcg agaggggaac ggcgacgaca 120
ctgggaagga agatagtggg tgtaaagatc tggctctggg agaggaccct gtcctgggtcg 180
aggatccaga ggaaggtacc tgtacttctc tggcggtcgc atccaagaac ttgttccgtc 240
cattgttaag cacgcaagaa acttttctgt gctgttattt ggctctatta gctgactgtt 300
ggtagtggtc aactgtaaga tgcaataata caatagaagt tctatggtgt tcttgcggtan 360
gaatagttgc agaagaaaca gtatagctgg ttttcgggtg ttgctaattt taaatttaac 420
aat 423

<210> 5572

<211> 111

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-027-Q1-E1-G5

<400> 5572

gtaccggact agaattcgcc ggtcgacggg aggatttacg agtccggaaa ctgcttcaag 60
tcggccgcaa cgcgctatga ctccgcttca gtagacattt gtaggatccg c 111

<210> 5573

<211> 427

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-027-Q1-E1-G9

<400> 5573

ccggtcaaga attccccggg cgacggggcg gcagtgatga aataaagaac cacaagtggg 60
tcaaggcagt gaactggaag aaactagagg ctgcacagat caagccaagc ttctgcccac 120
atgttgctgg gcagacctgc attgcaaact ttgacgagtg ctggacgagt atgcccgctgc 180
tggattcccc cgtggccagc cctgtcgctg cagatagcaa cttcgtgggg ttcatgttacg 240
tgcgcccgga gccattcctt caaaagccga gtcctctagg ctgaagacta ctttataatt 300
gtggtatcta agaaatctgg tatcttacct ttgtcaaga cagtaagatg aacctgctgt 360

tgtgcttgtt ttagacttca ctagttgatt gcccgtagt tgccatggaa cacaagaaca 420
cacgtta 427

<210> 5574
<211> 192
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-027-Q1-E1-H1

<400> 5574

gggtcgacgg gcttcatagc aaaattacac gagagagaga gatatcactg gtaatgttgc 60
tctggaagta tctcatgcta tgggatcaac aaaaaatcc agggcccacg tgtggatcac 120
aatccaccaa tgactgacca ggggttcttg cgcacccaaa tttgttgtga ccaactgggt 180
gaactccctc cg 192

<210> 5575
<211> 412
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-027-Q1-E1-H11

<400> 5575

ccggtcaaga attccccggg cgacgggaag cactatgtat ctatggaaat ttcagttttg 60
gcatcgagca tctctcttcc ctcacacgag tccatgccat gattagctgc aaatgtgctg 120
tagcttcgga ggtgaatact gtgaaggatg cgatacgaga acaagcaggt aacttgtcta 180
gcaaaccac gatcgaattt accacaataa atgaacacat gataattcct gatcacaag 240
caaagacagc agcagtttcc cctaaaattt ggttaaacgg gtgtatcaac ttcagacaaa 300
ctgcctagca tcgtaagagg tcaggatgga gtcaatttta atcacatgtg gctgaagcac 360
tcatgcagaa caggacacgc gacttcgtct tctctctag tactccctcc gt 412

<210> 5576
<211> 468
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-027-Q1-E1-H3

<400> 5576

ccggtccaga attcccgggt cgacgggcta tgctaagagt gtgactcggtt atttttttct 60
tttttttaag aaaaaaactt agtaattata gaaaattaac taataaccaa cctattgctt 120
cgtattgtcg agatcctaac taagaaacag tcactatatg aataaatacc tctatcataa 180
atgagtagat gtgtcatata gttgtagcaa ctgcaatfff ttctctaaaa aagaaaaggg 240
attctagggt gtgaagcaaa actaaaggga tgtggataaa gggagggatg atagaaagaa 300
ggaagaggaa ataaattaga ttttaggatt caacaaggta gggtcatgaa tttcatcata 360
aaaaggaatg tgataaagca tcaatataat aaaaataata gagaattaaa aattttaact 420
tgaaacaaga actacaaatt taaagcaata ataaagagcc gcccgggt 468

<210> 5577

<211> 309

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-027-Q1-E1-H5

<400> 5577

ggtaccggac tagaattccc gggtcgacgg ggagcacaag gagaagaagg acaagaagaa 60
gaagaaggac aagaagcacg gcgagggcca caaggacgac gacggccacg gcagcagcag 120
cagcgacagc gacagcgact gagccagctc cggccgcgtg cagtgcaggg gagatgaacg 180
cgtgggttaa tttggagcgt gtggtagcat atgtatgtaa tgcttgacat gtctcatgga 240
tcttgtaatg taataaccgg ctgcactgca tggtgcttgt aataataacg ttaaggaatt 300
tccattggt 309

<210> 5578

<211> 368

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-027-Q1-E1-H9

<400> 5578

ccggtccagt agttcccggg tcgacgggga ccacaaggag aagaaggaca agaagaagaa 60
gaaggacaag aagcacggcg agggccacaa ggacgacgac ggccacggca gcagcagcag 120

cgacagcgac agcgactgag ccagctccgg ccgcgctccg gcagcagcgt gcagtgtagg 180
cgagatcgat gaacgcttgg gagaagtgtg gcatacatat atgttgcagg gtttggagcg 240
tgtggtagca tatgtatgta atgcgtgaca tgtctcatgg atcttgtgat gtataataat 300
tagccggctg cactgcaactg cacgggtgctt gtaataataa cgттаатgaa tcatgttggt 360
attgatac 368

<210> 5579
<211> 422
<212> DNA
<213> Triticum aestivum
<223> Clone ID: LIB104-028-Q1-E1-B7
<400> 5579

gtaccgggtca cgaattcgcg ggctgacggg ggctacaaag tgggtgggtg gtgggcctcg 60
aatttcttcg ccgtccgtat cccaaccatg ctgaccgtaa tccggccagg gctctcctga 120
caaagagaga gacttttagtg aattcaggat gtcgccaaaa ggcgagtgtc gaaagacgtc 180
cgcggcgggtg aactccatga tcggagccca atcgggtttg atcggaaggg gtgcggagga 240
ttcggagtcc ggaacggagt ccggcacctt ggaatcacgg gccttgcaaa ggactaggct 300
ggtatttggc tctatcgccg taaagattgc ggctcctggg gcagcgtcca atcgtccgtc 360
cttggttggt gtagtcggct ccgggataat ggctggagcg gacacctgag ccgcgctctg 420
gg 422

<210> 5580
<211> 408
<212> DNA
<213> Triticum aestivum
<223> Clone ID: LIB104-028-Q1-E1-C1
<400> 5580

accgggtcaag aattcccggtg tcgacaagat tctggcaggc gatgcccga ttctcgagcg 60
ccttcacatc attagtgtg tccaccgtag cgaacatgta gtgggggcta ttgacaaacc 120
tggcgaaacg ctgcgaatgc cttgtcgtca ggcagtagtg gtagacgagg acgtggtggc 180
gcacacacat ctgagcgacg acgaccttgg gacgcgaccc ggcacgagcg cgagcgtact 240

caaggtcgaa cccgaccacc ttgtacttct ccgcggcaag caagagctcc atgatgtgga 300
 tgtagtgctc caccacagaat gggtcgttgg tgtacaccat caagaggtac atgaaccttc 360
 tggtgggtgt ccaccacggc acgcatgggtg aactgctgct cgtcgtca 408

<210> 5581
 <211> 331
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-028-Q1-E1-C11
 <400> 5581

gtaccgatca agaattcccg ggccgacggg gcttggagta gaatttgtaa tgctcaaaat 60
 agatctacta ggaagctttc tacttccggt cttctccgca atttttatgt aggcataact 120
 ccttggaata gatgtgttct tgatactggt gccggaggtg atttcttgag tagccatacg 180
 tttgacgctt ataatgctat gttagatttg tttggccac cacctctttt ggtaaatgga 240
 actgttttaa ctttagaaca cgttatgcaa cggcttgatg ttatttaaaa taaaatggcc 300
 agtggttgatt tgattgaaaa tttggataaa a 331

<210> 5582
 <211> 450
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-028-Q1-E1-C12
 <400> 5582

gtaccggact agaattcccg ggccgacggg tatcccacta ggagcatgcy cgtagtactt 60
 tgtttcgatg actaatagat ttttgcaata agtatgtgag ttatttatga ctaatgttga 120
 gtccatggat tatatgcact ctcacccttg catcattgct agcctcttcg gtaccatgca 180
 ttgccctttc tcacottgag agttgtgcaa acttcgccga tgcattcaaa cctgtgata 240
 cgatacgctc tatcacacat aagcctcctt atatottcct caaaacagcc accataccta 300
 cctattatgg catttccata gccattccga gatataattgc catgcaactt ccatcatcat 360
 catatacatg acttgagcat ttattgtcat attgctttgc atgatcgtaa gatagctagc 420
 atgataattt catggcttgt caattttttg 450

<210> 5583
 <211> 453
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: LIB104-028-Q1-E1-D11

 <400> 5583

gtaccggacc agaattcccg ggccgacggg tggcgagtg gcgccaacac ttcccgcggg 60
 acatcatcaa cgagcgcggg ttctatgcgc aaaggagggc ggagagggat aagatgaggg 120
 cagagcgaac cgcctatcgc gaggacaagc gtaggcgaaa agtggacgct caattcaaca 180
 tgaggctagg agcagcgctg ccttgggaat tggacgacga tcggtatctt ctgcctaca 240
 gtcatacgtc agaggaggac atcacctagg aggagtcaga caacaaggag tagttgaatt 300
 atcttttttt aaccaaccat gctgagaact atcctctact ctatctactt cttgagctca 360
 gcactgtaaa cacttttttt aaagcgccgc gcattgtgat tctgttgag atgctctaac 420
 atggcagatg agtgctttaa tgttgccac aag 453

<210> 5584
 <211> 428
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: LIB104-028-Q1-E1-D5

 <400> 5584

gtaccggtca tgaattcccg ggccgacggg gtccacaatc atccttgctg tacacacctt 60
 ttgagagata cacacatgat tcagaaattg ttagaacact ctatgtgctt cacttatatc 120
 tattgagtta tatagttttt gatctagtgc ttcacttata tatttttaggg cacggtgggtg 180
 gatttgtttt atagaaacta ttcttctctc atgcttcaact tagattcttt tgagagtcct 240
 aaaaaacagc gtggtaattt gctttaatta tgtaggcat tcaagattaa taaaaaatt 300
 cttatgagtg tgttgaatac tatgagaagt tttatacttg ataattgttt tgagatatgg 360
 agatggtgat attagagtca tgctagtga gtagttgtga atttgagaaa tacttgtggt 420
 aaagtttg 428

<210> 5585
 <211> 430
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: LIB104-028-Q1-E1-D6

 <400> 5585

gtaccggtca tgaattcccg ggtcgacggg ctatttaaaa ctgctcgacg ggagcttaat 60
 cttccttctg ctaatgaatt gattagttct cagtcaaaca atgaggcaaa tggaaatctg 120
 gaaaacacac aggaagtgca ggtgaaccca acgagcttat ctcaatacag ggacatccag 180
 agaaagattg ttgagtttat cagaaagaga taccatattc tggaaaaatg cttggacatt 240
 gaatatgccg tgataaaaac aaatactcct gttoctgatg atcttactga acaaaatggt 300
 cctatgggac atagcccagc tgttccagat atcagtgaag tgttgagaga acttccccct 360
 cttgtaccaa tttctgccaa agaagtggct tctgatggct caactgacca ggcacacctt 420
 tcccatcttt 430

<210> 5586
 <211> 176
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: LIB104-028-Q1-E1-E11

 <400> 5586

atcgacgggg atccaaaaaa aaaaaaaaaa aaaaaaaaaa acaaaaaaa aaaaaaaaaa 60
 aaaaaaaaaa aaaaaaaaaa aaaaaaccgg ccgccctaaa ggttcaaacc ttacttaccc 120
 ttgcatgcaa cttcatagcc ctccaaaagt gtcaccaa at ttcatttcac ggcctt 176

<210> 5587
 <211> 337
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: LIB104-028-Q1-E1-E2

 <400> 5587

taccggtcct atattcccg gtccacgggg tcaggaaaaa gtggggcggt ggtgtcatgg 60
 gctccaagtc gcaggccaag accaaggcca gggaaaggct catcgccaag gaggctgcgc 120

agaggatgaa ctaagcctag ccttatatgt cagagcatat gccatgtagt ttccctttca 180
 gtgtgtcctg attttgacga ggaactcgaa cccttttagc agcactgtgg aatcgtattg 240
 tgggttttctg attctctgtt cggttcgcca gacttatgca aagatcagat gaggtttacc 300
 catgtttgga ttctatatag ttttatgccc tttgtcg 337

<210> 5588
 <211> 225
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-028-Q1-E1-E6
 <400> 5588

tgggactccc agtagtgagt cgtattagat atttattaca ttagttagtg actagattgg 60
 gcaggttagt tagttggtgc cattcaatgc atgtgcaagc tcccgatc attatcatgg 120
 tcatcatcag ggtgtgatga tagcttagac ttgatcaatg gcacatatta gtacttaa 180
 gacgtgatcc tggttacggt tatccagtaa tctgatgcct cgggt 225

<210> 5589
 <211> 393
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-028-Q1-E1-E8
 <400> 5589

aattcgcggg tcgacgggtc atcaaaagaa tcctgcaaca tgagacgttg cagccatgta 60
 ggtcagtata ttgaatgtac tggcaatttc acgctgtaga gcaatgctaa ataatggcta 120
 tcactacatg catatttggt tgggtggaggc tctaagttta atttttgcat aaagccaatt 180
 ttttctaca acaaaggaat atattttatt taactataaa gtttggtgaa aacattgaga 240
 aggttcctcc aactcaatcc caaattaaca tcaataacct aacaaattat ttaaataacg 300
 tgatgagatc aacatgataa ttcaagaacc agatacccaa gatgtccaca accagggata 360
 cggctagtca tgactagttt gtacactctg ctg 393

<210> 5590
 <211> 371

<212> DNA
 <213> Triticum aestivum

 <223> Clone ID: LIB104-028-Q1-E1-E9

 <400> 5590

 gtaccggacc agaattcgcg ggccgacatg ggcgacatgc tgatgatgga caggttccgt 60
 caatggcagg ccaggcacia ccggtcgtac ctgagcgagg acgagaggct gcgtcgcttc 120
 cgggtgtacc gcgacaacgt ggagtacatc gacgccacca agccggcgcg gcgacctcac 180
 ctacgagctc ggcgagaatg agttcgccga cctcaccatc gaggagtcc tagccaggta 240
 cgcgctgctc tacgatgggg tcggtgatga tactggcatc acgttgcttg tgggcggtgg 300
 cgacgccgag ctgtggctgt cctgcggcga caatgatagc tccttgagg ctccgcctcc 360
 cagctgggac t 371

<210> 5591
 <211> 450
 <212> DNA
 <213> Triticum aestivum

 <223> unsure at all n locations
 <223> Clone ID: LIB104-028-Q1-E1-F11

 <400> 5591

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 ctcaaaacaa ctatcaagta tcaaacttct cttactattc aatgcacttt ataaactacc 120
 atgccgttct aagggaactct caaaatgata taagtgaagc atgagagatc aataatttca 180
 ataaaatata accaccaccg tgctctaaaa gatataagtg aagcactaga gcaaaattgt 240
 ttagctcaaa agatataagt gaagcacata gattattctc ataaattccg attaattgtg 300
 gtctctctca aaagggtgtg acagcaagga tgattgtggg gaaacanaac gcanagactc 360
 aaatcataca agacgtcca agcanaacac atatcatgtg gtgaataaaa atatagctcc 420
 aagtaaagtt aacgaatgga cgaagacaaa 450

<210> 5592
 <211> 415
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-028-Q1-E1-F5

<400> 5592

gtaccggact agaattcccc ggctgacggg tgtgattatt tgcttatggg gggttccggg 60
agggattgaa acctgtaccc caagttgtga gtcgttgcac atgggatgaa gagggcaatt 120
tatcttaagg tcatagttag gtttgcctta atgaacttgc tcgtatttgc ggatatttgc 180
taatagttct aatcataagt gcataaaaat ccaagaaaga aatagtatgt tagcagaggc 240
ctctcccaca tataaaaacta caatgacgat tatcgttctg ttatcaattg cctcccaaaa 300
taagagtctc taccttagta caactttgta ctaaagttag tccaaagtca agacacttat 360
ttcgggatgg agggagtatt aggataggaa ataccataat aattttcttg aaaca 415

<210> 5593

<211> 419

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-028-Q1-E1-F6

<400> 5593

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tgtgctcggg ggaggggggtg tgtgtgtgat gtgtgttgcc tctgtgtgtg tgtgtgtcag 120
atattgagag aaaacaaacc taaggagaga aatgtgtgtg tatgtgacgg aaagctactt 180
gctaaacagg gtattcacga agagattgtg cgtgacgat agagagcgat gtgcgggcct 240
tgagggtggg agggggcggg tgagggtgtc aaaatgtgcg ccttgatgca tgtgttacat 300
gcatcgtgc gagggacgga cgaatcgaga gagatggttg ttgtgttacg gatgttcctc 360
tctctctcac atacacacac acacaagtaa aatagaagac cgttctctca tgtatacac 419

<210> 5594

<211> 444

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-028-Q1-E1-F8

<400> 5594

aattccccgg tcgacgggta ttataataac agatctcacg aagggttttg ttaagttttg 60

tgtgggtgaa gtgttcaaag atcgaggagg tctcgatatg aggagaagga ggagaggtag 120
gagttcaagc ttgggggatgc ccaagtaa atgcgaggag actcaagtgt ctaatcttgg 180
ggtagcccgga aaggcatccc atctttcttc aacaagtatc gatatgtttc agttttcggt 240
tcgttcatgt gatatgctta aatcttggag tgtcttttgt gtttagtttt tgctttttat 300
tttatgcaca atgctgggtat gatatagtc atgggttgatt tatggaattc tctttgcact 360
tcaattatat cttttgagta tggctttata gaatgcttca tgtgcttcac ttatatcatt 420
cgaagttggg atgcctgggt cccc 444

<210> 5595

<211> 437

<212> DNA

<213> Triticum aestivum

<223> unsure at all n locations

<223> Clone ID: LIB104-028-Q1-E1-F9

<400> 5595

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tctcaaagcc atgagaattt ccattgacaa gtgcaaagaa agaactgcta ggatgcgtgc 120
taagaaagat gcctttatga aagcgtgttc ttctagttcc tatgaaaata atgatgaaga 180
tctaaaagtt attgatgtgt cccctattaa atctttgttt tgcaatatga atcttgataa 240
tgatcggact gaatatgac catctttacc tagaaggcgt tctaagaatt cagaatttat 300
tggtcctgat gctaaatttg ataaaagtgg gattgaagaa attaaaacc tagatgttgc 360
taaaccact atattggatt tcaaggaatt taattatgaa aattgctctt tgattgattg 420
tatttcnttg ttgcaat 437

<210> 5596

<211> 458

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-028-Q1-E1-G5

<400> 5596

gtaccggtac agaattcggg ggccgacggg tttgcatttt gttcccagct tgcaccgtca 60
ttgagccatt ctaccatggg tctcttccat ttccgatgat aagcaaattc atccattacg 120

ttgtcttcaa caaggtaatc cacatcatcc aagtcgagat atgccattct accgaccccc 180
 tccaaacgat cgctcgagga ttgtcttagg ctgggtttaa gagtttcaat gatctttgaa 240
 tcaaaagtaa ttctttttgc cacttaaggg gatatttcta cgagtcacct tccctaagg 300
 gcctcgttgt gggttcatgg caactcaact cctcgctacg ttgacaatcg attaccacct 360
 tcttaagcgt gaaattgttg tctacctagt gaaccctcgt tatctgttcc actccatccc 420
 cccaaggggg tgtgcttcgt ctctcagctc aagagatg 458

<210> 5597
 <211> 411
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-028-Q1-E1-G7
 <400> 5597

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 ccagaagaaa atggtgatgg tgctgaggac gaggagattg aggatgatga tgctgaggat 180
 ggtgaggatt ctgtcaaggc gcaatcctct tcgaagagga agaggctctgg cgcgaggat 240
 gaagatgatg atgacggtga tgatgatggt gatgatgatg agaagcctcc atcaaagcga 300
 tagtcaattt gttcttgctg atctgggtatc tttctgctt gggccaagaa ggaaaataat 360
 cctcacggag aggggtgttg gtaaagtctg tagctttagg acatctgtgg t 411

<210> 5598
 <211> 424
 <212> DNA
 <213> Triticum aestivum
 <223> unsure at all n locations
 <223> Clone ID: LIB104-028-Q1-E1-H5
 <400> 5598

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 ggctggggag actatccgcg caaccctggt tcttggtgat ggcatcgggc ctgagatcgc 120
 cgagtcggtc aagcaggtat tcaatgttgc aggtgtaccg atagaatggg aagaacatta 180

tgttggtacg gaagttgatc ccagaacaga gagctttttg acatgggaga gcctggagtc 240
 ggtgcgtaga aacaaagttg gcttgaaagg tcctatggct acacctattg gaaaaggcca 300
 ccgttctttg aatcttacat taaggaaaga acttggactc tacgccaatg tcagaccttg 360
 caacagcctc ncaggctaca agactagata tgatgatgtg aaccttgtga caatccgtga 420
 aaat 424

<210> 5599
 <211> 408
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-028-Q1-E1-H7

<400> 5599

gtaccggact agaattcccg ggccgacggg caggaacaga tgatcacaca atatcttttg 60
 ataaatcctt ttacctagc ttctgatttc tattaccaga aacagattgt ctgttcttac 120
 aggaaacatc taaaacagc cgttattcgt tattgtgctc ttccatgttg cgccgctgac 180
 aagaggatgg agggtttttag tcgtcgctgc ggagaagaag ggtaaccacc aagcaggaga 240
 gagggaggaa agctatgcc gttcgctgga agccaggcaa cccggcgcca tcgtcgagga 300
 gagcgaggag gggctagatt acgccgccac agaggtgagc tacgaggggc tgcggcgctc 360
 ctgcatagga ggggggagag aagccgccac cgcaccacgt gattctgc 408

<210> 5600
 <211> 375
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-029-Q1-E1-A1

<400> 5600

taccggtcca gaattcccg gtcgacgggc gggcggtgca gctgcgcac gcgatggcg 60
 cgcaggtgac cgtgcagtat gcgcacaacg tgatcatcca caacatccac gtcaacgacc 120
 tcatcgtggg caagggcggc aggatccggg actcgccgca gcacgccggg ttccgcaccc 180
 agtccgacgg cgacggcgtg agcgtcttcg gctccaccga cgtgtggctc gaccacctct 240
 ccctcgccac ctgccaggac ggctcctcgc acgtcatcga ccagtccacc ggcgtcacca 300

tctccaactg ccacctcaca aaccacaacg acgtcatgct ctteggtctcc agcgacagca 360
 accccaaaga cgaga 375

<210> 5601
 <211> 463
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-029-Q1-E1-A4

<400> 5601

cgggtcaagaa ttcccgagtc gacgggtaga aggaagaaga aacacaaagg aggcagcata 60
 aagctcaaac tacactgacc atgttgccac ttggccaata tgcaaattca aatctacaac 120
 caacaggacg catattcagt ttccaactac aactaagata accaatccac cggaactgaa 180
 taacagtgtt ctctaacttc cactaaatgg aacttagtaa aaggtaaagt gtccatactc 240
 gattattcac caagagaatc aagtactcag atttcgcaat ctaggtgaat gagtggttgg 300
 aaggatgaac aaatgaatag gcttgaaaat gacaatatag gacttaagaa tgccctgttta 360
 cataatactc ctccgttcac aaatagaaga tgtttttgat atttcaatta tggactacat 420
 actacggaat gaaatgagtg aacaaacaca ctaaaatgtg tct 463

<210> 5602
 <211> 67
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-029-Q1-E1-A7

<400> 5602

ctactcccaa tagtgagtcg tattagttgc tttagttctc atccatgac tatttttcta 60
 cttcatc 67

<210> 5603
 <211> 409
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-029-Q1-E1-A9

<400> 5603

attccccgggt cgacgggcaa aacaacttca accgaatgag tacaactctg ggacattttac 60
tctgtccaac ttgggcatgt ttgggtgtaga tagatttgat gcaattcttc cacctggcca 120
gggagctata atggctgttg gagcctcaaa acctacagtg gcggctgata aagatggttt 180
ctttagtgtt aagagcaaaa tgatgggtcaa tgtcacggct gatcacagga ttgtttatgg 240
tgctgatttg gctgcattcc tgcaaacttt tgcgaaaatt gttgaggatc ctgagagcct 300
aactttgtag gatgttcttg gaagtggctc atgagttggt caaccgtcag ttcattttcca 360
gttggaagtc tatcgctgag tttgtttttc gttttcttat ctgtatcct 409

<210> 5604
<211> 422
<212> DNA
<213> Triticum aestivum
<223> Clone ID: LIB104-029-Q1-E1-B10
<400> 5604

taccggtcta caattcacgg gtcgacgggg aatactagtg ttaaagtttg tgattcccg 60
agcatgcacg tatggtgaac cgttatgtga tgaagtcgga gcatgattta tttattgatt 120
gtcttcttta tgagtggcgg tcggggacga gtgatggctt tttctacca atctattccc 180
ctaggagcat gcgtgttata ctttgctttg ataacttcta gatttttgca ataagtatat 240
gagttcttta tgactaatgt tgagtccatg gattatatgc acttttcccc atccttccac 300
cattgctagc cactctaata ccgcgcactt tttgccggtc tcatacacct accatatacc 360
ttctcaaaa cagccaccat acctacctat catggcattc ccatagccat tccgagatat 420
at 422

<210> 5605
<211> 472
<212> DNA
<213> Triticum aestivum
<223> Clone ID: LIB104-029-Q1-E1-B2
<400> 5605

cgccggcatt acggtcaaga attccccgagt cgacggggacg cggggtggac tgatcatcta 60
ccatggagtc atgttgaagg tggagcttga ttgaggggct acggtgtaag gatccagaga 120

gtcgaagcct attcagctgg gaaaaagcga gtgacatgca gtttggactg gagcctagtg 180
gtttgatgga agcgtgaaac tcgtcatcgg tcggtgatga tcggtggtac tctgcagtgg 240
gggttgagtg gtgtggttta gcgacccttg agactcgacc gggacagcgg aggctcgacg 300
cgataatagc ggtgaggcat gcggtagcac ggggcatgga gacggggccag ggctctggtg 360
gtcatacatg tggtgaggca actgcgaatt tgactcgggg tgactacaag caaatggtga 420
aaatcctttc aggtttcaga caggcgggtca agaaatgagc ggtgatattg ag 472

<210> 5606
<211> 385
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-029-Q1-E1-B3

<400> 5606
attcccgagt cgactacatg acacttcacc attatattggg actagaggaa ggcattggga 60
agtaataagt atttgatggg ttgctagagt gacagaagct tataccctag tttatgcatt 120
gcttcgtacg gggctgattt ggatccacat gtttcaagct atggtttaggt ttaccttgat 180
acttttgttg tagttgtgga tgcttgcaat agtgatgagg acatcaatac aattgttaca 240
cccacagccc ctgctgctat acatactgga ccaattacta gagctcgtgc acgccaacta 300
aattaccagg tactttcggt tcttggtaat gattctaattg ttcattgagaa tatgatgctg 360
cctaaattgg atacatttgt tttgc 385

<210> 5607
<211> 456
<212> DNA
<213> Triticum aestivum

<223> unsure at all n locations
<223> Clone ID: LIB104-029-Q1-E1-B4

<400> 5607
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gcacgcagca acgaggcggg cgaggaggcg cggatcaagc agctggagct gcggcagggtg 120
aacaaggtga aggcgctcgt cggcgccttc gagaccgtca tggacgacaa ccaaagcccc 180
accgcgcgcc gcaagccgcg gctcaacctc ggcgcctgaa ctacgagtac attcgatgag 240

catgaagctc gatcgcgtgc gcctcctcct ttatccccgc tactctttaa tcacccatca 300
 acccaatttg tcgtcgtcgc acacttatct ataattacgg tatcgcttat attctgcaag 360
 gaggaagatg atggaagggt tatcatcatg atggtattat aataatgatc atggagcana 420
 aaaaaaaaaa aaaaaaaaaa aaaaaaagcg gccgcc 456

<210> 5608
 <211> 409
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-029-Q1-E1-B6
 <400> 5608

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 aatacaatgt tctccccctc tcttggtgag atctattcga tgtaaactct ttttgtggtg 120
 tgtttgtcga gatccgatga attgtgggtt tatgatcaag tttatctatg agaaatattt 180
 gaatctctc tgaattcttt tatgtatgat tgagtattct ttgcaagtct cttcgaatta 240
 tcagtttggg ttggcctact agattgatct ttcttgccat gtgagaagtg cttagctttg 300
 ggttcaatct tgcggtgtcc ttaccagtg acagaaaggg ttgcaaggca catattgtat 360
 tgttgccatc gaggataaaa agatgggggt tatatcatat tgcattgggt 409

<210> 5609
 <211> 461
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-029-Q1-E1-B7
 <400> 5609

accggtccag cattccccggg tcgacctccg cggacgaggt gcagcgcag atggcggaga 60
 tcgacaccga tgggtgacggc ttcacgact tcagcgagtt catctccttc tgcaacgcca 120
 acccgggggt catgaaggac gtcgccaagg tcttctgaat cagttcattt cacctcagcc 180
 gtccgatcca ggagccgatc catctacgta cggcttcgta tatcaatttc atgcaactac 240
 ctactccggt cccgatccag cctcagcttc acctgaggcc ggcctaatt ttgtttgatc 300
 aatttttttg ctactagtag taactagtga tgatcactgt tgcaccattt atttatttta 360

tatcgtcaca actttccagt gtttcttttc tttctctacc tttttggcca ttgttcgggt 420
 caagctcgat cgaacgatcc atgctgctaa ttgtttgtgt a 461

<210> 5610
 <211> 254
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-029-Q1-E1-C10

<400> 5610

ggtctagaat taccgggtcg acggcgtatg tcatatttag gtaggaattt tagagttcca 60
 gaactttgcg ttacttacag attgctacag acttttctgt ttttgacata ttctgtattt 120
 cttgtgtggg ttgcttattt tgaggcatct atggatatta aattatttta taaacaatat 180
 tgaagttgga atacattagg ttaatcacca attaattaaa taaggattta ataacgttac 240
 ctaagttgga gggt 254

<210> 5611
 <211> 417
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-029-Q1-E1-C12

<400> 5611

ggtcaagaat tcacgggtcg acgggcatta ctattttaat gtggaaacaa tttttagtgt 60
 tcaaattctt tatgatactc ccaccattcc gaatgaaaag aattttgctt atgtggagag 120
 tagtaaaaat tctatgcttg tagatcatga aaagaatgct ttaggtggtg tttatattgt 180
 tgaattcatt catgatgcta ctgaaaatta ttatgaggga gtaatatatg cttgtaggaa 240
 ttgcaataat gtcaagtttc ctctctatgt gttgaaaatc ttgaagctat gcttgtttta 300
 cttccaatg ctagttgatt atcgttccca taagttgttt gctcacaaaa tccctatgca 360
 tacgaagtgg gttagactta aaagtgctag tcatatgctt tatgatgctc ccgttaa 417

<210> 5612
 <211> 451
 <212> DNA
 <213> Triticum aestivum

<223> unsure at all n locations
<223> Clone ID: LIB104-029-Q1-E1-C2

<400> 5612

attccccgagt cgacgggagc aaaccattca ccatgggtact gcttgatgag atagagaaaag 60
ctcaccctga tatttttcaat atccttctcc aaatttttga agatgggcat ctggcagact 120
cacagggtcg cagagtttcg ttcaagaaca cattgattgt catgacatca aatgttggtt 180
ctacgtcaat ttcgaatgga cgacggagca tgggtttctc aacagaggat actgagtcga 240
gcagatatgt cgcggtgaaa tccctcgtga tggaagagct gaaaggattc ttccgtccag 300
aattgctcaa caggattgat gagacggttg tcttccgtcc tctggaacag actcagatgc 360
tggcgattct cgatatctc ctagaggaac ttaagggcaa gctcttgcc gtcgggatcg 420
gcctanaggt ctccgatgcc atgaaggagc t 451

<210> 5613

<211> 387

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-029-Q1-E1-C3

<400> 5613

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agaaaaaagg ttctaccaa tattctagtt gatagaattt ctgaacttaa tgacgatttt 120
gctattcgaa ataatgagct aggatattct ctgaatata ggctcaccaa gttctgtcaa 180
aagaatgcct ataatgatga attggttatg caatatgaag ggccgaagga ggaacctata 240
cctcctaagg ttgatcttgg ggatttttgt cccattaaat ttagcccttt tgattacttt 300
tgcttgccac aaagaaagct tgctgccgaa cgtagagagt atgaaatgag ttttaatgat 360
ctatcttatt attatggcag tacctag 387

<210> 5614

<211> 383

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-029-Q1-E1-C4

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 accaaccatg ttctcgtgag agaggagcgg agtccactcc tcttgagaat aaccaccta 180
 gcatggaaga tacaacaac cctagttgat acatgagcta ttcgagcata caaaacggaa 240
 tttcatttga aggtttggag tttggcacat acaaatttac ttggaatggc aggtaaatac 300
 cgcatatagg aaggatatgt ggactcatat ggaataactt tggggtttaa ggaattggat 360
 gcacaagtag tattcccgtc tagtataagt gaaggctanc aaaagaatgg gaaacaacca 420
 actagagagc gacaacagtc atgaacatgc attaa 455

<210> 5617
 <211> 409
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-029-Q1-E1-D10
 <400> 5617

cggctctagaa ttcacggggc gacggggacc atgatgcttg acaaggcgcc aggcctagat 60
 ggctttactg ggcgcttcta catgtcctgc tggcagatca taaaaatgga cttcatgagg 120
 gcgctcgacc aattccaccg aggagacatg cgtggattag cggtgatcaa taaggcacta 180
 gtatcattac tacctgatac gtctccaacg tatctataat ttttgattgt tccatgctat 240
 tatattaccc tttttggaag tttatgggtt ttactttaca cattattatc atttttggga 300
 ctaacctact aaccgaaggc ccatcccata tttgtagcga ccagacctca aacagtccga 360
 tctctgtgca tcagtgtcat ccttgggtca gtaatgtga cacgcacag 409

<210> 5618
 <211> 400
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-029-Q1-E1-D11
 <400> 5618

cggctctaaaa ttcacgggtc gacggggcgtg ttcaccacaca atacgacgtt ctgctgcgtc 60
 aagcagccgc ctggcagtcga gaagggtgcc tactacgcca tccatcacat gcggggcgatt 120
 gtacggggacc agcatcaact tctgctaccg agtaaaactca aagattgggc cgcgagcatg 180

ttggcaatcc aggacgcgga catcagacaa gaattctttc gcatccagtc ggagtttgca 240
gaaatcatct atcaagatgt ccttcgtacc tcggggcagt tctacctcag aaatcaaccg 300
tccaacagtg acatcgacac aatgctacaa atgcaggctg acaatgaccg ttatttcatg 360
actcccatga tagacggcga ctccatccac gtcgcggtcc 400

<210> 5619
<211> 453
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-029-Q1-E1-D2

<400> 5619

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cggatggccg gactggcaag gatgatgcgg atctctctcc tgaagacggg tcagtggttt 180
gatgatgatg gcagcttgta aaacgtgtgc gtgtggtgta cgcttttaggt ctgctgcacc 240
ggctgtttgt tccgatacgt tatgtggatg aatcggcaat gacaccggtt ttagatatga 300
ggagtgaag cactccacat tatcggttt gtaggtgtga atggtggctt cgggtgacct 360
gacgtatgtt ttggtcagtc ctttgctgaa taagttaata aagatggccg tatgcatcaa 420
ttgatgcaga ggccggagggt ctcaacctcc ttt 453

<210> 5620
<211> 454
<212> DNA
<213> Triticum aestivum

<223> unsure at all n locations

<223> Clone ID: LIB104-029-Q1-E1-D3

<400> 5620

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tttgcttcac atacggcacg tggtttgcta tagagggcct atcggcagtt ggacagtgtt 120
acaataatag cacctacatc cggaagggtt gccagtttct attatcaaag cagctaagga 180
atggtggatg gggtgagagt catctttcat ccacaaccaa ggcatacacg aacctagacg 240

gggagaaatc acatgtagtc aacaccgcat gggcaatgtt ggcactaatg aaagctggac 300
 aggccgaacg agatccgtct cctttgcacg aagctgcaag acttatcatg agcatgcaac 360
 ttggcaatgg tgacttccca cangangaaa tgaatggaat ttccttgana aagggtccct 420
 tgtgttatat ggcttatcgc aacatattcc ccat 454

<210> 5621
 <211> 451
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-029-Q1-E1-D5
 <400> 5621

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 atgccgagca attgatagaa aatcgcatag ttatgagaat atctaggcat gatcataaac 180
 atacgcatca cgtccgtatc aagtagaccg aatgattct gcatctacta ctattactcc 240
 acacatcgac cgctatccag catgcatcta gagtattaag ttcataagaa cagagtaact 300
 cattaggcaa gatgacatga tgtagaggga taaactcaag caatatgata taaaccccat 360
 ctttttatcc ttgatgtcaa taatacaata tgtgccttgc tggccctaaa gtcaattgga 420
 aaaggacacc gcaggattga acccaaagct a 451

<210> 5622
 <211> 264
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-029-Q1-E1-D7
 <400> 5622

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 cggagtctca gctgtgtgta catgtttagt ggtaggagct cctgggtctt ttgattccag 120
 tgttgtatga aatggcgcgga tggatgggtt ctaggagttt ttcttttgga cgggggatgt 180
 acgaaactga cttgcgcgcg tctctccgct cgtgggactc ggggaaacag tgttcccctt 240
 cgaactgttg tcctgtatgt ttg 264

<210> 5623
 <211> 406
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-029-Q1-E1-E10

<400> 5623

ggctctagaat taccgggccg acttccatca aaacgatatc catcatctca tcgaaagacg 60
 ggacaccttt gcctctatca agtgggtatca gatttccagg ttgctcgggtg agattttaca 120
 gtttttcgta gtttagatcg agtctgttct tcatacctac agtccacgaa aaagccacaa 180
 aaaaattagg gttagttcag tatatccgaa ccaatctgag cctttgcata atcttttagg 240
 gtttttgctt tgttgaattt gcgggttgcac cgtcatgtca agttgctggt cttagagtct 300
 agtcttttag agtttcgagt tctggtcata agttgtcacg ccgccgccgc accatcatca 360
 tcgccttgcc atctaccact attgcttatt cgccaccgct ctgaat 406

<210> 5624
 <211> 476
 <212> DNA
 <213> Triticum aestivum

<223> unsure at all n locations
 <223> Clone ID: LIB104-029-Q1-E1-E3

<400> 5624

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 atttgatgag gctgggtgctg ctgcctacgt gaccagagg ggtagtaata ctgaccacac 120
 acctgtacat cggcctcgtg tcagtgttag cgtcagcggc gtcgcccctg acgcacacta 180
 tagagacggg gcggcggcct acgcgggcct cgccggtgcc cacgatcaag aggaagacgc 240
 tgccgtcctc ctccgagact agcaggaggc ggtgatcctc cagcgactcc gacatggtga 300
 acgggtagca catctcgtac ttgatgttct ccgccaaggg ccagcaatgg acgaagggct 360
 ccttgagggc atcgaccagg ccgtccatga aatgggagtg gctgttaggg aacatgcgca 420
 agttgantat atgagcaagt tactatgaga ttaaatccga ataagcacia aataaa 476

<210> 5625
 <211> 453

<212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-029-Q1-E1-E4
 <400> 5625

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 gattcaacat ctctgtgtt ggaatcattg tctaccgtgg tctgtacttt ggactgtatg 180
 actctctgaa gccagttctc ctactggca ctctccagga caacttcttt gccagctttg 240
 ctcttggttg gttgatcacc aacggtgcag gtcttgcac ttacccatt gacaccgtcc 300
 gcagaaggat gatgatgacc tctggagagg ctgtcaagta caagagctcc ttggatgctt 360
 tccagcagat cctggcgaaa gaaggtggca agtccccctt caagggttct ggtgccaaca 420
 tcctccgagc cattgctggt gctggtgtgc tcc 453

<210> 5626
 <211> 396
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-029-Q1-E1-E5
 <400> 5626

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 cctatcgccc aactcactt ggcgacggtt ccaaatgtcg tcgcggaaag gggtaaagaa 180
 ttgtttgttt aggatcgacg gcacaccagt atgcgcacgt agttcaaatt tgaattatgc 240
 acataaatgc attgagaact cagttaatgc ataaaaatgt ccaaacgaac cccgaaaaat 300
 cataaaaatt cacacaacgc tccggttgtt ctatgttgac acgagaaaaa aaaaatgaaa 360
 gcaataagag gcaatggata tcgtttcctc cccaaa 396

<210> 5627
 <211> 387
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-029-Q1-E1-E7

<400> 5627

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caagaggccg atggtgatgg caacgtgatc agccaaccag cagcttgctg gacctcttc 120
tctctggatg cctaaagtca gtatgtcaat gtaatgtaaa catccctttc ccttcccct 180
ttcttcatgt agcttcggtc tactccttag tagtcttggg aaagcttggt ctttgtagtt 240
gcttcagcta ctggtactgt ctattgtgtg tgatgtaata tattatggac cattatggca 300
ttccttttca aaatcaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaga aaaaaaaaaa 360
aaaaaaaaa aaaaaaaagc ggccgct 387

<210> 5628

<211> 400

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-029-Q1-E1-E8

<400> 5628

accggtctag cattcccggg tcgacgggga ttatgacata catctgcacc ggcgctactg 60
tcttgactgc ctaccatttt ggtctaaccg gcctcgggtg ctcttggttg cgggttgctg 120
ccgcttcggc atggcgcttc gaattccatc cctataaaat accatataca caaggtaggt 180
gaagtgtcta aaatgagatg cctgcagttg ggattttggt tattcgaaa tgcgacgcat 240
ggagctgtcc aagatactcg gacgtaatgg ccattatggc atcagcagac ctcaattgaa 300
agaactgact gattatcatc cccatgaata tgcaggatc atcgtcgagt ccgaggacca 360
tggtccagtc aaggatcatc ggttggtgat atgggctggt 400

<210> 5629

<211> 451

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-029-Q1-E1-F1

<400> 5629

attcccagat cgacggggca tcaggatatt attgattgtc ttccttatga gtggcggtcg 60
gggacgagt atggtctttc ctaccaatct atcccctag gagcatgcac gtagtacttt 120

gtttctatga ctaatagatt tatgcaataa gtatgtgagt tctttatgac tattgttgag 180
tccatggatt atacgcactc tcacccttcc atcattgcta gcctcttcgg tatcgtgcat 240
tgccctttct cacctcgaga gttgggtgcaa acttcgccgg tgcattccaaa ccccgatgata 300
cgatacgctc tatcacacat aagcctcctt atatcttctt caaaacagcc accataccta 360
cctatcatgg catttcata gccattccga gatataatgg catgcacctt tcatcatcat 420
catatacatg acttgagcat ttattgtcat a 451

<210> 5630
<211> 419
<212> DNA
<213> Triticum aestivum
<223> Clone ID: LIB104-029-Q1-E1-F11
<400> 5630

cggctctagaa ttaccggggtc gacgggcaag gaaatcccca acattgatcc tgagcatctc 60
aaggctgcca ggaaattccc caaacttcgt gtcaaggatg ccgatgctac ggctctgaat 120
gtcttcaaga ttctccgggg cagtcagtc gatggtcata aagatgtaac ccttcgtgaa 180
gaatgtctac ggctctgaat gctacggctc tgaatgtcta cggctctgaa tgtcttcatg 240
actctgagga ccttggtgta gattcaggaa gaagaagaat gaagatggcg ctactaggaa 300
gcaatatcgt ctcttgctct aatatgaact agctttgcag tattgtagta tttgaatctt 360
tcctatgttg tcgctctgtg tctcgatctt caaaactgct ggacggatgt gatgttttg 419

<210> 5631
<211> 455
<212> DNA
<213> Triticum aestivum
<223> Clone ID: LIB104-029-Q1-E1-F2
<400> 5631

attcccgagt cgacgggggtc accaaagcag ggacgtttta atttcaaaaa aaaccataga 60
tcattaggac attttagtac attgactgat tttctacggg tataatgtgc aaaaatcaaa 120
tttgagctac atgcacacat gacagtgcac ctaaattggat tgcaaaaaca catgtgtctc 180
actgggtgca tgtttactcc tcgtgcaaga aatttcaaac attgagactc ttaattttta 240

aattctagta catccaaaac ttatctaaag ttcataaaac ttatcatggt gtcactctaga 300
 caccaataca aagtggcatt gtactttttt gtcaaatttg agaccagttt tgggtgaata 360
 tgtatctaata tacaacacggg agattattaa taatttggaa accattatcc caaatgaatt 420
 atttattcga accgtgagcg ttagacaaaac aatgg 455

<210> 5632
 <211> 375
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-029-Q1-E1-F3
 <400> 5632

attcccgagt cgacgggagg cgctagacgt gcccgagaa gaagttgatc cagcaggtgg 60
 tgttcgccag ctacgggaac ccgctgggga tctgcggcta ctacacgggtg ggcaaagtcc 120
 acacgcccac ggccaaggag attgtggaga aggcgtgctg ggggaagagg agctgctgctc 180
 tggcctgtgc gcacgaggtg tacggcgagg acctcaactg cccgggcacc acggccacgc 240
 tggcctgtgc ggcaaagtgc tccaagaggc agaggaccgc cgagcaataa gtaagctaag 300
 ctcagatatg tactgctatg tagatcatct catcaccttc acctttgccg accatggtct 360
 ttttcatgct gcttg 375

<210> 5633
 <211> 452
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-029-Q1-E1-F4
 <400> 5633

aattcccgag tcgacggggt gcgtaccgga agccaaagcc gtccacggc gacgacgac 60
 accggcccag ctacggccgc aagaagaatg acgacgacga cgacgatgag aggcgggtcgc 120
 ggtacaagaa ggcgacgac gacgacgatg atgagaggaa gccacggcac aagaagtgcg 180
 acgatgacga cgacgacgac catgagagga ggccgcgcta caagaaacgt gatgacgac 240
 acgatgacga cgatgacaga aagccgcgtt acaagaagcg cgatgacgac gacgacgatg 300
 atgataggaa gccacgttac aagcacgatg atgatgagga cgacgacgat gataggaagc 360

agcgtcgcgg ggacaaccgc cgccggcacg aatacgaatg ttgatcaagg catcatgaca 420
 tgagtttagc tgacgctaag aagcatagtt gc 452

<210> 5634
 <211> 370
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-029-Q1-E1-F5

<400> 5634

gtaccggtca agaattcccg ggtcgacgtt cgtgaggggg aacctgggtg tcgccgaagg 60
 gaagcacgcc gggggccgct gcggcgccac catcctcgcc aagtgatata ctagagctac 120
 aatgtcattg ctgatttcta gcgtatatga tcgtgtgctg tgtgtagtag tatgtatgtg 180
 tgcagatttg tagttgtttc cctgtgtata attggatccg gtgcatgcat ccattcccct 240
 ccattgtgta taccacacca ttcatggac agcaccaggt gtaggttatt tctctgaatt 300
 attcagatgt agtagttctg aacttctcag ttgtgataat atctatggga agaattgtga 360
 ttattctgcc 370

<210> 5635
 <211> 427
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-029-Q1-E1-F7

<400> 5635

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 gaggcaaccc aattttgttt gtgttttttt tctgttttag taataaatct tgcattctacc 120
 ttctgttttag atgtgttttt atcttttaat tagtgtttgt gccaaagtaga acctatagga 180
 taacctatga tgatagttga tttgattctg ctgaaaaaca gaaactttgc acgcacgaat 240
 ttaattttgt caaatcacag agacgtgatt ttgcgttgat tctttttgct gatgatcaat 300
 agacagattt tccaggactt actattttgg taggggtttt agagttctag aagtttgcgt 360
 tagttacaga ttgctacaga ctgttctgtt tttgacagat tctgtttttc gtgtgggtgg 420
 tgcctaa 427

<210> 5636
 <211> 399
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-029-Q1-E1-F9

<400> 5636

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 cgtgcgccgg agcccgcgct ggcagaagag gctcgctgct ctcaccgcag gagctggcac 120
 tttaagctat gcttgccagg ataaccgtgt tcttcaaata agtgatggaa cggggggcaa 180
 gaaaaaagtg gttatacttg gaactggttg ggcagggtgca agtttcttga gaaatatcga 240
 cacttctttg tatgatgtcc atgtggtatc acctcgcaac tattttatgt tcaactcctc 300
 gttgccgagt gtgacatgtg gcacgggtga agcacgcagt attgtggagc caattcgcaa 360
 tattgtgaga aagagagggtg gtgcattcag attctggga 399

<210> 5637
 <211> 328
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-029-Q1-E1-G1

<400> 5637

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 aagtggagtg cagtgcagtc agccagagga agacgaaggc gtttctatca gtccgatctc 120
 ctgccccctt tacatgatga ttattattat tatcttagtg catgtgtatg taatatccac 180
 catgaactga tggtacagta gactgccaca ttggtagtgc agtgcagcac agcacataaa 240
 aaaaaaaaaa aaaaaaagaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 300
 aaaaagacat acaaaaaaaaa acgaaaat 328

<210> 5638
 <211> 370
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-029-Q1-E1-G3

<400> 5638

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ctcgcagata tagtgatttg tgtgttttac gtagcagatt cgggaggcac ttatggcatg 120
acatcattgg cggagacgga atataggttg ggtacaatca tgtgacttca gaatcatgct 180
ttatgaacag gtttcatgag catgggtcaag cgcgatctgc gaatacgttt cgtgaccatg 240
ggtcattgtc atggagtaag ccaatccatt gacactccta tggacccatg gatgatttac 300
atttttctct tgtcccaatt catccacata tgtatccggg tatccacacc cttctaactc 360
ggccccatcg 370

<210> 5639

<211> 459

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-029-Q1-E1-G5

<400> 5639

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atcatgagag aacattcaag gagtggatta tttggaaatt agaaccttca gatttcttag 120
aacttcactt ggatttatgt gaatataagc gtaagaggtc tagtggcaat gctacaaaat 180
cactgcaggc gatataataa cggtgtgat agacggagac tgaatcagtt gacactactt 240
tgatgtctat cgagccaatg ggacaacaaa gtccttgag aaaagaagaa ccggaagcgg 300
gttatctatc ttcacgagca agttggcgtc tgtaaactt caccggagcc attccagctc 360
tttcagagcc acaaggcaag gaagttgagg aaccaagacc ccaacggtgc aaaacaattt 420
ggcaatcgaa aggactaggg ctgccataag ggacctgta 459

<210> 5640

<211> 280

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-029-Q1-E1-G7

<400> 5640

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ttacgttgca gatccgggag gcacttatgg catgacatca ttgggggaga cggaatatag 120
gttgggtaca atcatgtgac ttcagaatca tgatttatga tcaggtttca tgagcatggg 180
caagcgcgat ttgcgaatac gtttcgtaac catggggtcat tgtctttgag taattcattc 240
cattgacact cctatgggcc catggatgat ttacattttt 280

<210> 5641
<211> 457
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-029-Q1-E1-G8

<400> 5641

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atgaaataaa cgaaataacg ctcttggtaca aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 120
aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 180
aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa ggcccccaaa 240
aaaaaaaaaa aaaaataaac cccccaaaaa aaaaaaaaaa ccccctaaaa aggccccaaa 300
aaaaaataaa atggggggccc ttttaaaaaa accttttagg aaaaaaaacc cggattttaa 360
aaaaaaaaac ctttaaaaaa aaaacccctt tttaaaaagg ttggaaaaaa aaaaaaagcc 420
cccaaaatta tcccccaaaa aaaattttcc cccaaaa 457

<210> 5642
<211> 458
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-029-Q1-E1-H5

<400> 5642

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acctgaccaa gctgctttta tcttgagcat accaaagagg aagccactgg acgagacca 120
ggaaaccctt cgaacttctg ccttccccag taaccacgtg aaggaaaagt gggcgaagaa 180
cctgtacatc gcctcaatct gctgcgggag aaccgcgtgt tgacgacgta cttgagctcg 240
acggcgaaat cacccgagtt ttaccactgg agccagaaga gagttcgaga cggaacaaac 300

tcagcgtaa ccttattatc taggtttcga ggcgaattgg ctgggcgctg acactggccc 360
 ggectctttt ggttggcggc acgctattcc aattggtaag aatccttgca aaaatccttg 420
 ggggtggtgt atcagtcctc atcggtatga tatgaacc 458

<210> 5643
 <211> 455
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-030-Q1-E1-A1
 <400> 5643

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 gaccgcgagt tttgaacgct gtaagtacac atcgtgagca tggaggacga cacaaccccc 180
 gcgcccgccc cggctctccg gcgcacgcac gcacgcacgc tcttgaagaa gaagaagaag 240
 ctaaattgca tgtcagtga cgcctgaattg cagcggcccg ccacgatcga ccgtccggcg 300
 tgaagagacg gacgacgacg aattccgagc cgaccatccc accggcatgt agtaattgtaa 360
 tcccttcttc gtccccagtt ctccaccgcc tccatgatca accgttaaac tccaagccc 420
 tacaactact actactacta ctactactac tatca 455

<210> 5644
 <211> 422
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-030-Q1-E1-A10
 <400> 5644

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 ctgttcaggg cagattttac acgccatcta acaaatttat ttggaagaca gcgattactt 120
 ttgtcttgct tggagtgcct acccttggtt tccctactga agaagggtcca actctccagg 180
 tcttaattctc ttgtgcggca aatatctatt tcctttatca gcggcttaaa agtggatgga 240
 aatcattctt ttatgggttc ggctccttct ttgcttcttg gtttcttgcc acattcttga 300
 tgggtatcgg aattccgcct atactgcctg gtccaagaaa cttggaagtg agcacggcat 360

gtgttgctta cgcattcctt tttgtatcat caaccttcct gaaattacca aagtttggtt 420
tt 422

<210> 5645
<211> 444
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-030-Q1-E1-A2

<400> 5645

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caatttaaat tggatgaagga taagcataat gtaattctta ttcttggttc atcgactaaa 120
ttcaattcct tattccggag cctcatcaaa attctcggtt tcaattgttt catcttctct 180
tcccgcaatt ccaagctctc tcaattatat catcacaag atccatccaa gtcactacaa 240
ggattcacct tgtgctttca acttctcttt ctttttggtt gatcattctt tcattaccgg 300
agttcttcat gaagggttcta catgatggtt tcatcaagga ttaatttgt tctcgaagtg 360
ttcatcaaga ttcttttcag aggagttcaa gcattcttca tcttgctatc cggagtgcga 420
tttcttctac agtatcatcg gagg 444

<210> 5646
<211> 393
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-030-Q1-E1-A4

<400> 5646

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gagatatctt attactgagt ttgatcactt atgcatatctt atatggagta gatgtttgtg 120
acaatagaaa caatgtcata tgatgacccc tctgtgtgctt atactatata ttattttaag 180
caacatagta tatatgtaca ttggctcgag attacaaata tgtaatgata cttattttat 240
gtttattttt acccctctgt atctaaaagg aagtataaag aaaggtctta tatttttaaa 300
aaaaaaaaa caaaaaaaaaa aaaaaaaaaa aaaaaaagga aaaaaaaaaa aaaaagaaaa 360
aaaaaaaaa gcggccgctc taaaggatcc aag 393

<210> 5647
 <211> 436
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: LIB104-030-Q1-E1-A6

 <400> 5647

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 aggtgtagac ggattaggag gtctaggtgc tactgttgtg gattcttttag aactgcaat 180
 aataatgggt gctgacgata ttgtgtctga agcatcaaaa tggattgaag acaacctaata 240
 gaaaaagatc agcgagaaag ggcagggttaa cttatttgaa accactatcc gtgtcttggg 300
 agggcttctt agtgcgtatc acttgagtgg tggagaccaa gcaggaggag gtgattctgg 360
 gatagcagta acacctaaca agactaatcc agatcgtctt ctggcaatct caaaggattt 420
 agcagacaga ttattg 436

<210> 5648
 <211> 443
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: LIB104-030-Q1-E1-A7

 <400> 5648

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 cctttggagg taaaaatcac gtcattgaga gtcgccacac atgaaaattt atcggaagaa 120
 aaatcagtac aattacgtct cgatgaattg gatagactag aaggaaggcg acttgaagct 180
 ttgcaaaatc ttgaggcata ccaagctagg atgtcgcgag cattcgacaa acgagtcaaa 240
 agaaggctgt tcaacaagg agatctagta cttgcggtca tccgtcctat gaatatcagc 300
 cgacggatga aaggaaaatt tgaacaaaaa tgggaagggtc ccttcgtcat aaaagaggtt 360
 tattctagcg gcgcatatag aatcatatca ccagatgggg aatactcacc ggcaccgata 420
 aatgagaaat ccttaagcat tac 443

<210> 5649
<211> 426
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-030-Q1-E1-B11

<400> 5649

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accacaatag atgtttagg actcgtttgt tcccatgcat ctctaccaa ccatgtccct 120
ttccttcaac caacgagctt caaactgggt gtatcctctc ggttgctgca ggttacctcc 180
gacagcccct taagtatcca ggaaaacagt tttgtggtaa gatttttgtt ttctgcgggt 240
acaacctttg catttggaac tacaccatga aactctccat tacaacaac cgtatccagt 300
cgttcccggt gcctcatcct tctccatgta aactgatctc cggtaaacc cctatcttca 360
actcacagtc aatcagagca tcacagaaat cttgcatcat gtgcatcgga tgtggagctc 420
gtccct 426

<210> 5650
<211> 437
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-030-Q1-E1-B4

<400> 5650

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aaaaacatgg tagtagtaat gtaatgctgt aatggaatta cccgagatgt gtactagctg 120
ttttgtggcg cgccgcggtg tcgctgtgag cgagtgtgta cgggctgttc cgtggtgtgt 180
gtgtctgtgg atgatttgtt gttgcgttgc cgtgggactg gtgcaagtgt cgtgtgatgt 240
ggtatgcgtt gtgtgtgggt ggggtgctgta tatttgcgta cctctatgtg tactgaccgt 300
gatgcgttgt ttgtccgttt tatctctcta tatattgtcc gttgtttgtc cgttcggcat 360
cccagctggt gcgtcccagc cgagagattt ggcacgcgga gaggaggaag atccgcgatg 420
gacatgggga tgcacga 437

<210> 5651
<211> 378

<212> DNA
 <213> Triticum aestivum
 <223> unsure at all n locations
 <223> Clone ID: LIB104-030-Q1-E1-B8
 <400> 5651

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 aacaagtttg ttttacgtat gccatgtact caaaaaagtt cccacagaa aaaagttcca 180
 aaatcccggg ttgcctttt ctgacaggca attgagcatc cttcactgaa gttgtgtgtg 240
 tgctcaatca gtcttcagcc gtgggacttc actgaacctg gttcacagag ctgttcatgt 300
 gaagactgcc aacgtcgtgt gttcggttcc tgggtgtgct gcttctaccg aatacatcca 360
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<210> 5652
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 <213> Triticum aestivum
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 agtaccattt cgggtccactg agcggattgc tttccgtac ctcaacagtc aaaagtaagt 300
 gcttcctcac aagtaccatc attttcttaa tcatcttgaa gtgcttttcc taaccttttt 360
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 gaaat 425

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 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-030-Q1-E1-C3

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gagctctact cactcgtcac cgttgcccac gtgcctgctg agggtttgaa ggggctggga 180
accaaggctg tcgatgacac tgagtagact cttttcttta tctacatcgt tagaatgagc 240
tgttatttgg aattgcacca gcatgctttt tgtatcccgc agaagttttg gagtatggaa 300
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<210> 5654

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<212> DNA

<213> Triticum aestivum

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taaggagacc ttcttctcct ggtatcgtga agacttggtc ccctaatagga aaaagagttt 180
caccgccaca taatgcactc agcatttcac caaaccgaaa aggagggcgg aagctgatac 240
tgaaatcgat cccctccttt ccatcactgg ttggggacac gagcgggtgga tctgcaatat 300
gcagctccga cagcacaaca gctcttgctt taggtccatc gtaaaagtgc ggctgggcag 360
ccgattatcc gcgaccggag tacgacttgt agtccgataa tgggtacctcg catatgaact 420
ctgcggcaag gctcaagta 440

<210> 5655

<211> 285

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-030-Q1-E1-C7

<400> 5655

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 agtgagcgcc tccgtgaagg aggataacca aggggaagaa tctgaccttc tctcgcttcg 180
 aggaatgaag aggactgcct ctgaagatcc ggaaaccaat gtttccaaac acgagaagaa 240
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<210> 5656
 <211> 443
 <212> DNA
 <213> Triticum aestivum
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 <400> 5656

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 attgatctga ctggcaatgt tttcttttca taaaactttt gatctattca taacatcatg 180
 gcagcataaa gaacatcaaa aataataaaa catagtaagt aataacaatt acattgagca 240
 tttcaatgga aaataaaatt gttgccaatt tagtaaggaa tattaatgcc catgacaacg 300
 cctgggaaaa aatctagttc ctatgaacaa agatagaact tggggtagca ttcgagtaaa 360
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<210> 5657
 <211> 381
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-030-Q1-E1-D11
 <400> 5657

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 gagtaaacctc aaagattggg ccgcgatcat gttggcaatc catgacgcgg acatcagaca 180
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ctcggggcag ttctacctca gaaatcacgc gtcgaacagt gacatcgaca caatgctaca 300
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cgcatccggt cccttgagtc c 381

<210> 5658
<211> 421
<212> DNA
<213> Triticum aestivum
<223> Clone ID: LIB104-030-Q1-E1-D2
<400> 5658

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aacagccacc atacctacct attatggaat ttccatagcc attccaagat atattgccat 180
gcaactttcc atcattccat tcatcatgac acattcatta ttgtcatatt gcttagcatg 240
atcatgtagt tgacatagta tttgtggcaa agccaccggt cataattctt tcatacatgt 300
cactcttggg ccattgcata tcccgggtaca ccgccggagg cattcatata gagtcatctt 360
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t 421

<210> 5659
<211> 440
<212> DNA
<213> Triticum aestivum
<223> unsure at all n locations
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<400> 5659

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ccgtggcggt ccccggtgtc ctgaacctca ccggcggtgac cgtgtcgggc ttcttctcgc 180
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ggaagctgct cttcgcgata tgcggcgccg tcatgttcac ctgccagggt gcaatggcga 360

gcatcgcggg gacgcacctg nggcacggga gcaagatgcc caaggggtac gcngtggcgg 420
tgctggtgct gacgtgcgtc 440

<210> 5660
<211> 270
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-030-Q1-E1-D4

<400> 5660

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gttcctgaga ggcacgcacg tgacgcgtgt cggccttctt ctcaccgata ctcttccgga 180
ccataagggtt cggtagccac tccgccctga cgggcacat catcctccgc ctgatccaac 240
atccgaggta gcaactctc cggcgtctcc 270

<210> 5661
<211> 419
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-030-Q1-E1-D6

<400> 5661

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ctattgctac ttccatcgcc ctgcactgat ctgcaaatgc agtcaacat tcattttatt 180
gaactagtat atatattgaa aaagagacga catcaciaag agtgtgctaa caagaatgga 240
aatcaatac actagtctgt cagtgagtga ttgtgtgatg gcctgtgctc acttatgtac 300
cagccgttgt catttgatcg gagtaactat atcattgtgg gacacttgca acggtaggaa 360
cgtgtgttac tatttttggg accccctgtg aacatttgaa caaaaagagc aaatgtttc 419

<210> 5662
<211> 146
<212> DNA
<213> Triticum aestivum

<223> unsure at all n locations
<223> Clone ID: LIB104-030-Q1-E1-D7

<400> 5662

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acaaccatag gcgcgggagc actaat 146

<210> 5663
<211> 438
<212> DNA
<213> Triticum aestivum

<223> unsure at all n locations
<223> Clone ID: LIB104-030-Q1-E1-E1

<400> 5663

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cataatgtgg ctcacattgc cacaattata gcatgtactc acacgttgct tgcccttgga 180
gccacttgag ttgttcttgg agaagttggg ccttgagttt ctcttgttgc cccaaaattg 240
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ttcctcctcc tctcctctct cttctctctc ttcttctctt tcttcttctt ccaggatagc 360
cttggccttc aaagctaggt tgggtgagga tttttcgacc gttggacatg agctagagcg 420
ttgtcngcgg tcttgttc 438

<210> 5664
<211> 424
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-030-Q1-E1-E10

<400> 5664

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tgcggcgggt gacggacggg cggggcggcta gaggcgggag ccgccattgt tgtaattaa 180

aagattagta gccaaagtga atactactag gatcatccat gatattgctt ttttttcctt 240
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 ttcttgatct gagcttgccc atggcaattg gtccctccatg tttgtagtat gcttgtaccc 360
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 agaa 424

<210> 5665
 <211> 106
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-030-Q1-E1-E11

<400> 5665

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<210> 5666
 <211> 359
 <212> DNA
 <213> Triticum aestivum

<223> unsure at all n locations
 <223> Clone ID: LIB104-030-Q1-E1-E2

<400> 5666

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 tcaacttgty tgtctagagg tgccccctgc ccccgatat aaaggagcaa gggggacgcc 240
 ggccggccct tgtggggcga ccaaggagga gaagtcctcc tcttggtagg agtaggactc 300
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<210> 5667
 <211> 440
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-030-Q1-E1-E3

<400> 5667

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gctcatgggt cggctcatcc attgagacgt aagggtttga tattgtaacc cgcatttcgc 180
cgcctccatt gtatgtatat ttattctgtc cgagttgctg ttgttgcgta aaactgtggc 240
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catcatcagc actggaaatg ctgttgtttc gcagaaagtt caagtttggtg tgctggtttg 360
tataaatttg gtcatttttc taattgggac tcgtttggaa gatatgtttt atgttttttg 420
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<210> 5668

<211> 443

<212> DNA

<213> Triticum aestivum

<223> unsure at all n locations

<223> Clone ID: LIB104-030-Q1-E1-E4

<400> 5668

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agcgagcttc ctaacgaatt ttttctgcag ttctgagcg accactaagg tcaagacgag 360
caccaggaaa caagtgccca gtgaagaaga agctaccccg aacgcgcaaa gctaagttac 420
ctccacacan aataacgaca cag 443

<210> 5669

<211> 236

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-030-Q1-E1-E6

<400> 5669

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tgtcaccatg tgaactatac atggaacgaa gtatctctat gagacatatc atacagatta 180
tcgctgcctt ccaatgccac cttttgcttc tgccacccat cacatatcac tgaccc 236

<210> 5670

<211> 173

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-030-Q1-E1-E7

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aaaggatcat gaataccacg attccccac aagttgggat cacacttcga tct 173

<210> 5671

<211> 254

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-030-Q1-E1-E8

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aaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aacaaaaaga 180
ataaaaaaaaa aaaaaaaaaa taaaagaaaa ttcatacatc ctatagaatg taacctaaat 240
tcaattcaat ggaa 254

<210> 5672

<211> 403

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-030-Q1-E1-F10

<400> 5672

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 acgggtcaag gcttcttggt tggtgggtcta ttgatgaagg gagcaaggaa gagcaagctc 360
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<210> 5673

<211> 232

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-030-Q1-E1-F11

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 ttgtccatt ctgacttcag tgggcgctag attaattagc cgctctccat gattgaaact 180
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<210> 5674

<211> 265

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-030-Q1-E1-F2

<400> 5674

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 agtgcaggca aagaagaaac aaaaagggcg gacgcccaac aggggtgaatt gtctaagcgt 180
 ggatgcaatg agagttcagc catcgtaaat cttgacttgt aacttctagt ccatcgaaat 240
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<210> 5675
 <211> 452
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-030-Q1-E1-F5

<400> 5675

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aagctgtgca cgttgtggtg catttacaaa gacagtgaga tggacatttg ttttttgttt  240
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<210> 5676
 <211> 287
 <212> DNA
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<223> Clone ID: LIB104-030-Q1-E1-F6

<400> 5676

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gccagctgaa agagatgggc cttactgccg taggaccccg gagaaaattg atacaagcta  180
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gttcgtttgt tacatgtcct tgttgctagt cagttcaatc actgcag                                287
  
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 <211> 203
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-030-Q1-E1-F8

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gagggcatgg ggctctcgga gttattcgtg taacttgata tgcacttctt cctctctcat 180
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<210> 5678

<211> 443

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-030-Q1-E1-G1

<400> 5678

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agtatcgcg aacttttcggc gttaccacaa acccatcata taccttcctc aaaacagcca 240
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<210> 5679

<211> 388

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-030-Q1-E1-G2

<400> 5679

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agctcaccaa gggggagatc ctgatgetta acatcggatc catgtccacc ggcgcccgtg 300
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<210> 5680
 <211> 445
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-030-Q1-E1-G5
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 ggaataagga gtggcaaaag cataagcttg gggattacca tggcatccca agatattcaa 300
 gaatagccaa aagcctaagc ttggggatgc cccgggaagg catccctctt ttcgtcttca 360
 ttcattggta actttacttg gagctatatt tttattcgcc acatgatatg tgttctgctt 420
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<210> 5681
 <211> 408
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-030-Q1-E1-G6
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 ccatagctac ctattatggc atttccatag ccattccgag atatattgcc atgaaacttc 240
 caccgttccg tttattatga aatgcaccat cattgtcata tggctttgca tgatcatgta 300
 gttggcatag tatttgtggc ttgtccactg ttcatatatt tatacatgtc acgctagatc 360

attgcacatc ccgatacacc gctgaaggta ttcatataaa gtcatatc 408

<210> 5682
 <211> 425
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-030-Q1-E1-G7
 <400> 5682

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 ttgaaagctg aagcactaac cacaacatca acatccaacc tttttgacat ttgcaatccc 180
 agttttcaca ttaccatcct tccccacctc tttttgcttg tgggtgtttc ggagtctgta 240
 gctatttagt actttctatg tcgtgggcta ccagaggctc cctagaggct gcaaattttg 300
 tcgctgagta gaagcaaggg aacggacgga ggggtgtccc agtttctcct gaggctatat 360
 gcgtgtatta actgaaggcc gtggaaggca aaactcgtgg ggagctctct gagatttttg 420
 actgt 425

<210> 5683
 <211> 371
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-030-Q1-E1-G8
 <400> 5683

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 gagtgcgca atggggggag ctctgggca gagtcttctt caccttctgg gtgctagctc 180
 acctgtatgc gttcgccaag ggcctcatcg ggcaccgctg ccgctctaga gcgatgtagc 240
 ttacatacgc gtgcatgcta cgtcagacct cttaaagatt gtcactcaat ttgaactcat 300
 tgggggtcca tttaaaatgt catgattggg acaaacctcg actgttagta atttaattgg 360
 cttggactaa a 371

<210> 5684
 <211> 390
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-030-Q1-E1-G9

<400> 5684

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tcaaagccgg atggatgaag tgggtccaag cttttggcgt tctctatcac aagagagtgc 120
cacaaaagct aaaaggcagg ttctatagga tggccattcg acccgtaatg ctgtatggcg 180
ctgaatgttg gccgactaaa aggcaacatt gttcataagt tagggatagc ggagatgcgc 240
atgttgaggt ggatgtgtga ccacacagga aaggatcagg tccagaatga tgatatacgt 300
gacagagttt gggtagcact gattgaagag aggcttgtct aacatcgtct gagatggttt 360
tgggcatatt cagcgcagac cccaaaagct 390
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<210> 5685
 <211> 466
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-030-Q1-E1-H1

<400> 5685

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aagaccccc tggcaagcgc catgccgggg acgactacaa cgccatggca agacccttgc 120
cgggcccccg gcaagaccct tgccgaaggc atcagcgggg ccaactgccag gcccgcgcca 180
gccaaggctc cgccaccgtt cgcatacagc taccagccca accagctggg caggcacctg 240
cgtggcaaca tgcggcttac aagccaactc accaagcacc tacgtggtgg catgcagatc 300
ttcgtgaagg ccctgccatc gcgccacctc agcagcctgc ctgcctacat ggcactgcac 360
acatcgtctg cctgggcgcg tgcgaagcg aggcggagcg gcgacggatg ggacgggcct 420
cgttcccatc cccgataaag ctaatggaca cctaagtagc gcattt 466
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<210> 5686
 <211> 444
 <212> DNA
 <213> Triticum aestivum

<223> unsure at all n locations
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<400> 5686

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cgctgctttt tctttgagag gagaaagaga aagagaaggg cgctgctatc gcgacatggg 120
ccgacccagc cgcgcgggat gcgatattaa ccatgtacac aaaatgttac ctccccaaaa 180
aaatgtacac aaaatgttaa aattgaccat gtacacaaaa aatgttgatt ctcaaaaaaa 240
aaaagttaag aatgtattat aaaaatatat tacatatata ccaaattta caatgtgtat 300
aaaaaaagta aacataaaaa actaagtttt aaaaatcatt tatttcagaa atatttagca 360
tttgataaaa aatgattcta atgtatatga aaagtgttga atactctctc catccggaat 420
tgcnttgtcc agaaatggat aata 444

<210> 5687
<211> 442
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-030-Q1-E1-H7

<400> 5687

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ggctccgggat ctcccggtgcc tcatcagcag ctccgggcagc agcagctgct tgcagctgga 120
aggacacaat tcataacacg gtgaggaagt ttaaagaagg atcatttgtt gccctcaact 180
gtgtcatact gcggtaggtg tagtctacgc tgtgtagcaa cagggtttgg tagtctgtac 240
tgtacgcgtg tagcgtgtta tgtagcggca atggcgaaca ggaagtgtag tgatcgtcgt 300
gcaggcatga cggtgcaggc acgatgtcgt gcctgtgacg aaacgggtgtc atggaggtcc 360
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tgtatcgaaa actcgaactc ct 442

<210> 5688
<211> 445
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-030-Q1-E1-H8

<400> 5688

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accatcagca aggtcactag cctctagagc ccattgggat gaagactttg ggaccggagt 180
ctcctggggc aaaggctcgg cggcccgagc ctcgtcggtc cgaggctcgt ggaccggagt 240
ccgagacagg tccatgtcag acgggtccac ctcagacgga gcagtcctgt ggtcgggaga 300
atcatctggg ggtggcggca aggaagggtgc accagccttc ctacctctcc cgctgccatg 360
tccaccteta gcacctctct tcgtcttccc tcgaccttcc ctagccgaac aagaaacgcc 420
caacggtggt gtctgcatac tgtct 445

<210> 5689

<211> 353

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-030-Q1-E1-H9

<400> 5689

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gagggcaaca tcctcatcga gaggttccat ggcgtcccg cgaggagcgg gctgcactgg 120
cgctccttcc tcgtcaagct cggcgccgag aacctcaagg gcgccaagtc cgaggagctc 180
ctcgtcgctt cacacaagtc ggtctccatt gtgtatacca tgatcgggga cgtctgcctg 240
tacattggtg gcaaggatta atatgatgag cttgctttgt tggaggatgat cttcgctgtt 300
acgtcagcgg ttaaggatgt gtgtgccata acacctaccg agcgctcgt cct 353

<210> 5690

<211> 384

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-031-Q1-E1-A1

<400> 5690

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gtccttggcc ccgcgcagtc gccctacgaa ggtggagtct tcaagcttga acttttctta 120
 cccgaggaat atccgatggc tgctcctaaa gttaggtttc tcacaaaaat ataccatccc 180
 aacattgaca agcttggttag aatatgcctc gacatcctaa aggacaagtg gagtccagct 240
 cttcagatac gcactgttct tcttagcatt caggcactgc tgagcgcccc aaaccagat 300
 gatccccctc cagaaaacgt cgcaaaacac tggaaatcca atgaagctga agctgttgag 360
 acagcgaagg aatggactcg tatg 384

<210> 5691
 <211> 390
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-031-Q1-E1-A12

<400> 5691

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 aaatagcaat tctgggctgg gcctccggtt aatcggttag tcccaaaagt aatataaaag 180
 tggaaaataa agcctaatat agtccaaaac agtaggtaaa gtagcatgga gcaatcaaaa 240
 attatagata cgttggagac gtatcaggca tccccaagct taattcctgc tcgtcctcga 300
 gtaggtaa at gataaaaaag aatttttgat gcagagtgat actttggcat aatttgaatg 360
 taaatcttct taattgtgat atgaatat 390

<210> 5692
 <211> 174
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-031-Q1-E1-A5

<400> 5692

cgctctatag gatccaagct tacatatgcc ttcctcctac gtcataactc ttctacaggt 60
 tcgggtagat tcatctcaca ggacggtgtc ttacaccatg accactggga aaattctgag 120
 gatactcagg ttcatgtcct thtagaccat ggacgtatcg acaccgtgt tttt 174

<210> 5693

<211> 383
 <212> DNA
 <213> *Triticum aestivum*
 <223> Clone ID: LIB104-031-Q1-E1-B5
 <400> 5693

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gctgtaaaaa acagaaactt tagtgctcgc gagaattgat gccatTTTTT tattggagag 120
ttctattttac ttaattcttt ttgcatatga ttaatagata aattcctcgc gtccagaaat 180
ttatttttaga atttttggag ttccataagt attataaacc tacatattac tacagactgt 240
tctgtttttg acagatactg tttttcgtgt gttgtttgct tattttgatg aatctatcac 300
tagtaacaga gtttataaat catagagaag ttggaataca gtaggtttta caccaatata 360
aataaagaat gagttcatta cag 383
  
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<210> 5694
 <211> 418
 <212> DNA
 <213> *Triticum aestivum*
 <223> Clone ID: LIB104-031-Q1-E1-B6
 <400> 5694

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atggatccca gggacccttt cagaatagag atgacggaca tgctgatcga taagctgtat 120
aatatgggtg taattccaac aaagaagagc ttggttaaat gtgagaaact ttcagtgagc 180
gccttcgcca ggcggagact tgcaacaatt atggtgaagc tcaagtttgc tgaacacctt 240
aaagaggctg tcacctacat tgaacagggc catgtgcgtg taggccaga gacggtcacc 300
gatcctgcct tccttgtagc caggaacatg gaggacttca tcacctgggt ggattcctca 360
aagatcaaga agaagatcat ggagtataat ggtgcattgg atgattatga tgccatga 418
  
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<210> 5695
 <211> 435
 <212> DNA
 <213> *Triticum aestivum*
 <223> unsure at all n locations
 <223> Clone ID: LIB104-031-Q1-E1-B8

<400> 5695

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agacgaagag tatgaggagg aggatgatatt gggagaggag atcgatgagg agggatgatga 120
agatgacact gttgttgagg tacttgacgt gccagtagt gatgatgagg aggatggcat 180
cgatgaggat gatgatgatg atgaggagga ggttgaggat gatggtgatg gtgaggaggc 240
tgagccagag agtagtgga gggttgctat ggcggtggg ggtgttgag aagagattga 300
tgacatgag caaggtgaag gtgatgatga ggatgagaat ggtgagatcg gagaggaaga 360
tgaggaaaga ttgaggata gtanggttta tgaggaggac aacgatgatg acgatgctga 420
tgatgaggat gaaga 435

<210> 5696

<211> 377

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-031-Q1-E1-C10

<400> 5696

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ttaacgtctg attcaggggtt ggcaccgcca tgtagaccat cgatcgtttt agatctctac 180
ttattgattg attctttctt caaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 240
aaaaaaaaaa aaaaaaaaaa aaaaaataa ataaaaaaaa aaaaaaaaaa aaaaaaaaaa 300
aaaaaaaaaa aaaaaaaac aataaaaaaa aaaaaaaaaa aaaaaaaat gggcccccca 360
aaaggttcca ggcctaa 377

<210> 5697

<211> 418

<212> DNA

<213> Triticum aestivum

<223> unsure at all n locations

<223> Clone ID: LIB104-031-Q1-E1-C12

<400> 5697

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 cgcgccgctc gcgctcgggg tcgcttccgc tgctcgatct gctcccgaag ctgcgtctgg 180
 agctccacat gcggccccac atggtggctg gaggcggaag gtggtcgccg gcggcgagaa 240
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 cgcaaacgcg tcgtggaaca gtagatatag tggtcggggc gtgcggtttg cgggccgagg 360
 caaatTTTgt tacgggccgg acgagtatgt gggctctgtt ctgancgaaa aattgggt 418

<210> 5698
 <211> 447
 <212> DNA
 <213> Triticum aestivum
 <223> unsure at all n locations
 <223> Clone ID: LIB104-031-Q1-E1-C8
 <400> 5698

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 aaagtgaacc cgacgcacta cggggagcca aggttttaca ccaaggtgtt taaggaatgc 180
 cactcctatg accaagatgg gaattccttt gagctttctc tggttaacttc caagtgcatt 240
 ggagcttatg tgaagagcaa gaagaaccag aaccagatat gttggctatg ggagaaggtc 300
 aagtgcacag aagacaaagg ctttcagaga ttcttggaaca atgtgcagta caaatccact 360
 ggaatcctgc gttatgagcg cgtgtttggg gagggttatg tcagcaccgg tggattcgag 420
 aacacaanaa gattttgtgg acaacct 447

<210> 5699
 <211> 350
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-031-Q1-E1-D10
 <400> 5699

gtgagtcgta ttacagtacg aatccgtacg tatggaaact cgggtggacta tacggtcatg 60
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gacgtgtgtt atatattggt gagtgcacatg atatgatatg atacaatgca gctcaggata 180
 tcagcgtgtg gtttatttca acttctatgt gagtttctct ctattttag cagtgcagatt 240
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 tatatgatat ggtaggacat attctacaca aggatctacc ttgcattttc 350

<210> 5700
 <211> 419
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-031-Q1-E1-D11
 <400> 5700

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 ccgccgccga ggcgggcgcg tgaagcctag ctgcaaacca ttgttttatt ggcgcattgt 180
 gttgttgctc ctattttttg agtctttttt agattgtcat gttgtctggt ggagagaata 240
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 tcctgtggct ctgcctggcc tgtttatgtg cctggaagtt gtaaataatca ccgggcatgt 360
 gtatatacag attgttgga tgtgctacga cctacgaatg catctatcct actgctctc 419

<210> 5701
 <211> 409
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-031-Q1-E1-D12
 <400> 5701

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 ttaagatgta aattagatga tcctgtgatg ggtttgatgt gaagggtggt tgtgtgcttc 180
 agttcaaaca catctttgga tgatcctggt atcttggtgc ttatttattg tttaaataac 240
 acagttcaat ctttgtgttc tctgtaatat gggagaaggc gtggaacaga ggaagcgtgc 300
 cacgtgaatg gatccagaac cgtgtactgc tacaaacggt gaagggtactc tcttctcttc 360

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409

<210> 5702

<211> 346

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-031-Q1-E1-E8

<400> 5702

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acaggaccga caccatcttt cagctgaagt tcgagcgctt tcgcgacagc tggcaaggct 120
gtctgcatgg atatgtacgc atattgtgta tcccatgtgt cgtgtcagac aactgatca 180
taagcggcac gttgggtcag atacttcgat ctgccgttcc ctttgagtgt gacaggatct 240
tcctgtgtcc tcgagacttg catagagatg catatgcagt aacgtgacgt gcaatcaccg 300
acttagagta gtgtcagtct gttatcattg catacctgcc taaatc 346

<210> 5703

<211> 430

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-031-Q1-E1-F1

<400> 5703

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atgcatctat ggctagtatt aagtggatg aaccatagag aacttgaaat acagtaggtt 120
taacgccaac ataaataaag aatgagttca ttacagtacc ttatgtggtg gttttgcttt 180
ctttcactaa cggagcttat gagatttctt gttgagtttt gtgttggtgaa gtttacaagc 240
tttgggtaaa gatttgatgg actatggaat aaggagtggc aaaagtctaa gcttggggat 300
gcccattgga cccaagata ttcaagaata gccaaaagcc taagcttggg gatgccccca 360
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tcgccacatg 430

<210> 5704

<211> 446

<212> DNA
 <213> Triticum aestivum
 <223> unsure at all n locations
 <223> Clone ID: LIB104-031-Q1-E1-F7
 <400> 5704

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 ggagcctcca attgagttgt ggagattgcc ccaacctcgt ttgtaaaggt tcggtcgccg 180
 cctccaaggg caccaatagt ggaatcacgg catctcgcat tgtgtgaggg cgtgaggaga 240
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 cgtacttcct ctcaaagga aggaacttcg gcaacacatc ctcatctcca acgcctccac 360
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 tgtgttecta tccgtgttgc atcata 446

<210> 5705
 <211> 422
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-031-Q1-E1-F9
 <400> 5705

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 tcatcgccag gacgaccggg cttcatgtaa gaccgtatca taattgccac accagtgaat 180
 gatcatcgtc taactcccat tacacttctg tgatcacctc tcctctacta gcaccgcagc 240
 agcagcagca agggatggag taccgaacgc agcacgaagg cagcgtctac tcggacctca 300
 tggagacgtt cttggagtaa caacgcaacg catgcatgca tgcgtcgatc gatcatcctc 360
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 aa 422

<210> 5706
 <211> 394
 <212> DNA

<213> *Triticum aestivum*

<223> unsure at all n locations

<223> Clone ID: LIB104-031-Q1-E1-G5

<400> 5706

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agcattctac cattttcttc ggagagaagt agccagaaac agcagcgcca tggccggcat 180
catgcacaag atcgaggaga agctccacat ggggtggcggc agcgacgagc acaagaagga 240
cgaggagcac aagaaggcgg aggagcacia gaagaaggac ggggagcaca agaaggacgg 300
cgagcacaag gagggcatga tggagaagat caaggacaag atcagcggcg acggccacgg 360
cgacggcaag aaggacggcg agcacangga gaag 394
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<210> 5707

<211> 412

<212> DNA

<213> *Triticum aestivum*

<223> Clone ID: LIB104-031-Q1-E1-G9

<400> 5707

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tgtccaatcg gttgtcatcc ccagaccoga cggagctcct cgagtttgcc ggcgggttat 120
ccaagaccgt catcgacgtg cactactatg tgttgttcaa tagcatgttt gatactttca 180
ccgtgcagca gaatatcgat ttcataaga ccaactactc aagcgtcttt agcactgtca 240
cgaagcagaa cggtcctctc acctttgtag gtgaatgggt ggctgagtgg caggtgcccc 300
atgcaacgaa ggaagagctc caaatgttag caaatgcaca aatggatgtg tatgggaagg 360
caacgtttgg atgggcttat tggactctca agaatgtaaa caaccactgg ag 412
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<210> 5708

<211> 373

<212> DNA

<213> *Triticum aestivum*

<223> Clone ID: LIB104-031-Q1-E1-H10

<400> 5708

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tagaatgatac cagaggagcc ggaggcaacc gcataggcct ttttggaggt cttggcctcg 120
tctatgaaac ctctttatgc ggggtgcgaca atatctcagc tggatgccat ctcgcaactg 180
attgcagtca aggtctgagta cggctgtatc cacatatgct tcgaagcatt cctgggagta 240
tggtgctaaca gcctccctga ggggtcatgaa ctgccgataa gcatgtacga tacaacgata 300
atcatgaagg cactctctat ggattatgag aacatatatg ttgcccga taattgtctt 360
ttgtttatgc act 373

<210> 5709
<211> 311
<212> DNA
<213> Triticum aestivum
<223> Clone ID: LIB104-031-Q1-E1-H11
<400> 5709

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gactggggca ccaacgacac taacatcgca caaactgtgc aagtgggata tttcctcgca 180
tccaagtatg ccaaaagccc aagcctcctc gcaattgaac caatgaacga accgttggcg 240
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gagacacaca c 311

<210> 5710
<211> 422
<212> DNA
<213> Triticum aestivum
<223> unsure at all n locations
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<400> 5710

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gggttgacat ggcaataggt angcatggta aacaaaggca ggcagggcta acataacgaa 180

agagcgagta ctagcaagca aagatagaag tgatatcgaa ggtatgatca tcttgccctgc 240
aaggttctca gagttgtcga aggctggatc ctcgttagcg tactcaacag gttcctcgtt 300
cacgtactcg tctccccggt ctacccaaaa taagaacaca agcaaggaac cacaataaat 360
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gc 422

<210> 5711
<211> 458
<212> DNA
<213> Triticum aestivum

<223> unsure at all n locations
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<400> 5711

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ttatgatact cttactattc tgaatgggaa gaattttgct tgtagatcat gaaaagaatg 180
ctttaggtgc tgggttatatt attgaattca ttcgatgagc tacttaaaat tattatgagt 240
gaggaatata tgcttgtagg aattgcaata atatcaagtt ccttccccac gtgcttaaaa 300
tcttgaagct atgcttggtt taccttccca tgctagttga ttattgttcc cctaagttgt 360
ttgctcacia aatccctatt cataggaagt gggtttaggt taaatgtgct agtcatatgc 420
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<210> 5712
<211> 434
<212> DNA
<213> Triticum aestivum

<223> unsure at all n locations
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<400> 5712

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tgtttgacgc tcttcgtgct actgatgacc tggtgatgag gagggcatat tttaggaagc 180

agcagcttga caacaaaaca acatcaccta actctaactg aagaggacag ccggtgtgat 240
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 taagaagctc atgttgcctt tatgcatgta ataatcatgc ctgcctgcat ggcccgctag 360
 ctgttggtcc aatgcctggc tgcctgcctg aactggcgtc aatttccagt ttgtttttgt 420
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<210> 5713
 <211> 380
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-032-Q1-E1-A8
 <400> 5713

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 aggccaacga ggatgccggg gccaccttcc tggctgcccc ggtggccggg gatgatgcca 300
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<210> 5714
 <211> 199
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-032-Q1-E1-B10
 <400> 5714

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 ggccgctcaa aaggatccaa gctaacgtac gcgtgaatgc aacgtcaaag cccttcaaaa 180
 gggtcaccaa aattcaatt 199

<210> 5715

<211> 396
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-032-Q1-E1-C10

<400> 5715

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ggccccggag gtgtcacagg acaaactccc ggactttgca ctggactcag ccccgagacc  180
cacagtggct ccggagtcg gtgggcgacc ccttcgtaag aagggaaga cctgacgcc   240
ggctgcctcc atccaaccg aggtgcgga taatttgcta gaggcgtca acggtgcctc   300
catcaaagag gaacaccgca ctgttatgag tgcggtgatt cagaaggttc agctcgccaa   360
gagcaagctg accgaagcct gcagcagcct tctaac                               396
  
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<210> 5716
 <211> 374
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-032-Q1-E1-C8

<400> 5716

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tacacacatt gctcaggttt tcctaatttg gtaggatttt tggagttaca gaagtattcg  180
agagttacaa attactacag actattctgt ttttgacata ttctgttttc tatgtgttgt  240
ttgcttactt tgatgaatcc gtgagtagta tcggagggta tgaaccatag agaagttgga  300
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<210> 5717
 <211> 452
 <212> DNA
 <213> Triticum aestivum

<223> unsure at all n locations
 <223> Clone ID: LIB104-032-Q1-E1-D3

<400> 5717

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aaaaaaatta aaataaaatc ttaagatggt gtgccgaccc atctcgaagg tgctcatagg 180
gtaaaaaaaaa atatattatc atactactcc ctctcgttcc aaatatttgt ctttctaaag 240
atttcaacaa atgattattc cctccgttcc gaaataactg tctttctagg catttcaa 300
gggcacaaca tacggatgta tgtagacatt tagagtatag attcactcat tttgctttgt 360
atgtagtcac ttgttgaaat ctctagaaag acanatatct gggaacggag ggagtacatg 420
taaagcaaaa tgagtgaatg tataactctaa aa 452

<210> 5718

<211> 328

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-032-Q1-E1-D5

<400> 5718

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aaactcacag ctccgaataa aacttgacca agagttgtaa atactccaag ttgctagctg 180
tgatgcatga acgctacgtg gtagtcgac caatgacctg gttcagcggg actctgatcg 240
gctatgacat ccgcggccgg cccgtcttga cagccatcac tccacgccat cgatggtgtc 300
atgcacatcc gatacaaagg agtgatac 328

<210> 5719

<211> 447

<212> DNA

<213> Triticum aestivum

<223> unsure at all n locations

<223> Clone ID: LIB104-032-Q1-E1-D6

<400> 5719

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ggtgacggct tcacgactt cagcgagttc atctccttct gcaacgcca cccggggctc 120
 atgaaggacg tcgccaaggt cttctgaatc agttcatttc acctcagccg tccgatccag 180
 gagccgatcc atctacgtac ggcttcgtat atcaatttca tgcaactacc tactccggtc 240
 ccgatccagc ctcagcttca cctgaggccg gccctaattt tgtttgatca atttttttgc 300
 tactagtagt aactagtgat gatcactggt gcaccattta tttattttat atcgtcacaa 360
 ctttccagtg tttcttttct ttctctacct ttttgtcgat cgtcggctcc agctcgatcg 420
 aacgatccat gctgctaatt gtntgtg 447

<210> 5720
 <211> 352
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-032-Q1-E1-D7
 <400> 5720

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 cattctttca tgctaatcgt atcacacgct tagggagcgc ataagctaac tgggctcaag 180
 tatctcccaa tcagcataat taacgcccac cgcccttttg aaattaggac ttaactactc 240
 atgccatatg catgcatttt gatagacagt gtttattgat ctctctctca ctcaactctc 300
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<210> 5721
 <211> 335
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-032-Q1-E1-D8
 <400> 5721

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 ctctgggata cagaacgttg cagtgggtga attacatttg tggctccata tctgttcggt 180
 tgggggtacg taggtatata tcggaggaag aagtatgtcc gtggagctct gagggggcca 240

cgatgcaagg gggagcgccc gccatcctct tgaccgcctc ttttgttccc tgtcgtaagg 300
tctacgtctc ctgcatgacg ttcagtgaga acatc 335

<210> 5722
<211> 145
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-032-Q1-E1-E10

<400> 5722

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agccaaggtt ttacaccacg gtgtc 145

<210> 5723
<211> 390
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-032-Q1-E1-E11

<400> 5723

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gctgcatccc ggtctgggaa gtgatagtc tggccgtggc gagcatcgcg ggcttcctgg 120
ccgggtttct tcttcatgat gcagtcgaca agatgagcaa caaggccaat ttatctgggt 180
aagtttatct ggttacacta gtagtgaata gtgctctaga attatggttg tgggtgtttag 240
ctcagcatat atatatatat attgctgaaa gcatgtcgat cgatcgctg tcgtggcatg 300
gcacgtactc ttctgccgga gttaagtacg tgtgagttcc tgtgtttggt tcatgtgcta 360
cagcttaaatt tgcgtagcat gatttagtgt 390

<210> 5724
<211> 65
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-032-Q1-E1-E5

<400> 5724

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cttta 65

<210> 5725
<211> 292
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-032-Q1-E1-E7

<400> 5725

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tgaagtgttc gactaatcaa aagagtctca atatgagaac aaggaagaaa agcatgaaga 180
tcaagattgg gatgcacacg gcaaccaagg tgaatatgca gaggtactca agcatcaaga 240
catggagatg aagaagaagg cgtcgactca tacgacgacg aataacaata ag 292

<210> 5726
<211> 390
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-032-Q1-E1-E8

<400> 5726

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ttacgctctc caggctgtca cggcacacat ggttggtaaa atacaaacat ttgcgatttg 180
caccataatc cgagacggtt cacagacagg aaacgtttgc aagcatgcac acagttgccg 240
tttgcaaagc atgtgctatg tcagacaata tcacaaacgg tgcgggcaaa ctaaacgttt 300
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tcgtaaacgt tgcaccacag aatagcgtgt 390

<210> 5727
<211> 269
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-032-Q1-E1-F10

<400> 5727

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agatgtcatc gtacttgtag tatggccaac ttcatgattt tcatacatgt cgctcttgat 180
tcattgcatt gcccggtgaa tcgcccgatg cattcatata tagtcatatc ttgttctagc 240
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<210> 5728

<211> 398

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-032-Q1-E1-F4

<400> 5728

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tctttttctg acagtcaata attagatgca agggcctctt gctaggttta gttagactta 180
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gttctgcata ctaaatagtc tgatcaagta actaaagtgt cctaaatacg tagcaaagtg 300
ggccagttcg cttctgtgac gatacaacac atcctggata ctagtaaata tcattagtgc 360
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<210> 5729

<211> 423

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-032-Q1-E1-F7

<400> 5729

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gccaccatat cacatgtctg ccagatggtg cttcaggacc ccttggccag gaaggatgac 180

ctgcgtcttc gtgccaaagg actgaaaact ttagggaaaa ttttccaggg tgттаagctc 240
 aacagtgggtg agggggaagg gtcgcacatg aagaatatag ataacatgga tgacaatgcc 300
 ggtagctccc ctgattcgtc accaaaacgg gagccatcat tcaatcccat tcctaaccct 360
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 aac 423

<210> 5730
 <211> 385
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-032-Q1-E1-F8
 <400> 5730

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 aaaacttttag ggaaaatttt ccagggtggt aagctcaaca gtggtgaggg ggaagggctc 240
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 gtacgggagc catcattcaa tccattcct aaccctctc ttactcagag tccatatgtg 360
 gaggtcccc agtttggcgg aacct 385

<210> 5731
 <211> 451
 <212> DNA
 <213> Triticum aestivum
 <223> unsure at all n locations
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 <400> 5731

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 ggaggaattc aaacatctgt gtgttctcca cttgagccat tgccaatcat tggaagaaca 180
 tcatcttgag aatatagtga gggtgcccc gctaaggtag ctgaacctca aaaatacaga 240
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acacacttgt gtagaggaat tgcctgcac tattgttaat ctcaaaaaat tgacgcatct 360
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<210> 5732
<211> 445
<212> DNA
<213> Triticum aestivum

<223> unsure at all n locations
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<400> 5732

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ccaacgaaca taacgagcat aacaacattc atcacactag tgagatcgct ggggttctcc 180
gcggcgccga tctgtgggac gaagaagaaa gagctagaca gaaacaggaa gacctgaaac 240
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ttccgctctt gacaggaaat ttac 445

<210> 5733
<211> 443
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-032-Q1-E1-G7

<400> 5733

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tcctggacgt tgggtgtaat actaccagag tggacaatgg caaagcgtac catgcataca 180
caacggaaaa gaagccccgag cctgcgcatt gaccaagggt gtttacttgt agcacaaatc 240
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gcacctagtt cctttgcaaa gctgtagtaa cttgttttgc tcgagggcaa tacaacagac 360
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<210> 5734
 <211> 413
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-032-Q1-E1-G9
 <400> 5734

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 tatcaaatag tcctttgtgg gattacatgc caatggtttt ctacatctga tcatctccga 240
 aatttttgca ccgtacttca gccatgttat gccgcgtttc atcttttgct tgtaaagata 300
 gtacatcaac cctttatgtg ggaaaagccg atagtgggta gatgctgtgt agaaaatagg 360
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<210> 5735
 <211> 412
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-032-Q1-E1-H5
 <400> 5735

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 gcatcttgtc atgtttatgt gttgtgtgtt taccatgtgg tttgctcctt tccggttggt 360
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<210> 5736
 <211> 435
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: LIB104-033-Q1-E1-A8

 <400> 5736

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 aaggaagaa cagagcacgg gtggacgaag ggtttatata ggacggcctt tagtaccggt 360
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<210> 5737
 <211> 456
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: LIB104-033-Q1-E1-B12

 <400> 5737

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 gagttgcaag gcacttccgc gaagtgttct ctgaattggt gcaaggtggc cacggatact 180
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 ctcgatgaagc agatcctgaa gggaggatag agaagtatat tgggtggaag gtcaaggttt 300
 ccttcactgg caaggagaa actcagtcca tgaagcagtt gtctggagga cagaagacag 360
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<210> 5738

<211> 442
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-033-Q1-E1-B5
 <400> 5738

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ggagcgggct gttgagtatt tatattctgg tattcctgag ccgatggaga ttctctgcacc 180
accaccaagt gcccagccag ctgatactgc cctggcttcg caagcagctc aacctgcagt 240
tgctcttcc ggtcctaata ctagccctt ggacctcttc cctcaagccc tgccaaatgc 300
ttcagcaaat gctgctggtg aaggaaatct ggatgttttg cgtaacaatg cacaattccg 360
aagcttactt tctttagtgc aggccaaccc tcaaattctta cagccattgc ttcaagagct 420
gggaaagcaa aacctcaga tt 442
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<210> 5739
 <211> 450
 <212> DNA
 <213> Triticum aestivum
 <223> unsure at all n locations
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 <400> 5739

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tagttttcca caatcatcct tgctgcacac ccctttttga gagagacaca cagattcgg 120
aaattattag aatactctat gtgcttctact tatactcttt gagttatata gtttttgctc 180
tagtgcttca cttatatctt ttagaacaca tcggtggatt tgttttatag aaaccattgt 240
tctctcatgc ttcacttaga ttattttgag agtctacaa acagtatggt aatttgcttt 300
aattatttga ggcattcaag attaaataaa taaatctttc ttatgagtgt gttgaatact 360
atgagaagtt tgaaacttga taattgtttt gagatatgga gattgtgata ttagagtcgt 420
gctagttgag taattatgaa tttgagaaat 450
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<210> 5740
 <211> 442

<212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-033-Q1-E1-C12
 <400> 5740

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 gtaccattga gcttgctgga accaacggtg agaccactac ccagggtttt gatgaccttg 120
 gcaagcgctg cgccaagtac tatgaggctg gtgcccgtt cgccaagtgg cgtgcagtcc 180
 tcaagatcgg cgccaccgag ccatcgcagc tctccatcga ccagaacgct cagggtcttg 240
 ctgcgtatgc catcatctgc ctggagaatg gtctggtgcc cattgtggag cctgagatcc 300
 ttgttgatgg acctcatgac attgaccgct gtgcttacgt caccgagatc gtccttgctg 360
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 acatgggtcac ccctggttct ga 442

<210> 5741
 <211> 411
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-033-Q1-E1-C7
 <400> 5741

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 gttcaccggt actgtaccgg gaccaccgga aggggtcccgg ggggtccaccg ggtggggcca 180
 cccatctcga agggccccgt gggctgaagt gggaggggaa ccagcccata gtgggctggt 240
 gcacccccct ggtccccccc tctgcgccta ggggtgggaa ccctagggga gggggcgcct 300
 ccaattgcct tggggggcaa gtctcccccc ttggccggcg cccccctag gagatcccat 360
 ctctagggc cggcgcccc ctgggggtccc tatataaaga ggggggttg a 411

<210> 5742
 <211> 432
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-033-Q1-E1-D11

<400> 5742

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cacgatgttt acccagggtc ggcccctctc tatggaggta ataccctact tcctgcttga 180
ttgatcttga tgaatatgag tattacaaga gttgatctac cacgagatcg taatggctaa 240
accctagaag cctagcctgt atgactatgg taatgtgtat atcctttccg gactacaccc 300
cccagtttat ataaacaccg ggaggatcta gggttacata gggtcgggta cataggaagg 360
aatcttcata gttgatcgct aagcttgctt tccacgcaa ggagagtccc atccggacac 420
gggtacagtc tt 432

<210> 5743

<211> 410

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-033-Q1-E1-E4

<400> 5743

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ggacgtcgcc aaggtcttct gaatcagttc atttcacctc agccgtccga tccaggagcc 180
gatccatcta cgtacggctt cgtatatcaa tttcatgcaa ctacctactc cgggtcccgat 240
ccagcctcag cttcacctga ggccggccct aattttgttt gatcaatttt tttgctacta 300
gtagtaacta gtgatgatca ctgttgacc atttatttat tttatatcgt cgaaaaaaaa 360
aaagtcaaac gaaagaaaaa aagcggggcg tctagaggat tcaagcttac 410

<210> 5744

<211> 187

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-033-Q1-E1-F4

<400> 5744

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acatatgact gttcacaaaa taaagttgta caaaactaaa aaaacattcg ggtgctcgac 120
atgatccaat cttatctatg cttgcatgca acattagctc gcttccacag tgtcacacat 180
gataatt 187

<210> 5745
<211> 432
<212> DNA
<213> Triticum aestivum
<223> Clone ID: LIB104-033-Q1-E1-F6
<400> 5745

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aacgattggt gcaattattg atactaaaga aggaaatatt agattccaat ttccattaag 180
gaagggcatg gaacactttc ctaggaagaa attaaattac cttatgaatc tattatgaga 240
gccacttatg gattgcatac caaagatgat aatacctaga tctactcttg tttttatgcc 300
tagctagggg cgtaaacga tagcgcttgt tgggaggcag cccaatttta tttttgcttc 360
ttgttttttg tttccctttt agtaataaat aaatcatcta tcctctgtta tgattgtgtt 420
tcttatgttt ta 432

<210> 5746
<211> 440
<212> DNA
<213> Triticum aestivum
<223> Clone ID: LIB104-033-Q1-E1-G10
<400> 5746

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acaaggagtc cagcatccac ctgcgcgtgc gcctcgtcgg cggtggcaag ggcgggttct 180
acccaccag gatggagcct aacctgcgca tgctcgcgt caagtacagg cagcacaggc 240
ttgtgtgccg caagtgtat gcacgcctgc ccctcaggtc tgccaactgc cgcaagaaga 300
agtgcggcca cagcaatgac atcaggccca aggagaagct gcgccccac tgaagcgttg 360

gaaacataac taggtgacat gcgatagctg gattaactgg gaattcaaag ttcgggttcga 420
gtcttaattt cagttaaatg 440

<210> 5747
<211> 439
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-033-Q1-E1-G12

<400> 5747

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agccagagtg caagggtgaa tttgatatgg aggggaaagt gtgtggtggt acgtcagaaa 180
gtgaaactgc taagtgaag aagggtgtct gtgatccttc ttacttggcc aacaaggtaa 240
ggaagattgg aaaagttgca cgagcaattg ctattatgag ccaccaatt ccaaagcaa 300
atgattccca ctcgattcag attatatttac cacaaaagca acttgggcgc aagtcagaca 360
tgtatgtctt ctgttgctcg tacactcaca atgtcgcgcc aaaaggggaag ttcattgcat 420
ttgtgtctgc tgaagcaga 439

<210> 5748
<211> 196
<212> DNA
<213> Triticum aestivum

<223> unsure at all n locations
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<400> 5748

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attcgaattc acntnnggcc gtcagtttta canacgtctg ctgactgagg aaaaannccc 180
tggcgttttt acccaa 196

<210> 5749
<211> 440
<212> DNA

<213> *Triticum aestivum*

<223> Clone ID: LIB104-034-Q1-E1-A10

<400> 5749

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ctggatggag gttcgtcgag cagatccggg tgaaaacctt gctctgggct agttgccaaag 180
gccggcaatg gaaacgtctt tttgtgtcgc ccccttcttg aaggcatcga catggagaag 240
ctccaaacct ctatccgcta cctccaggga aaaccctaca ccagtcgatt ggatgatgtc 300
ggcgtctctg tgtcgtcctc cctgggggca tcattcttgg aggtgtgcat tggctcgagg 360
gaccagtgga cggtttcaat ggtgaagcag catttcatgt gacacatcaa cgacgtggag 420
tcttggcggc atggtgctgc 440

<210> 5750

<211> 421

<212> DNA

<213> *Triticum aestivum*

<223> Clone ID: LIB104-034-Q1-E1-A4

<400> 5750

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ccattgatga gtgtaaggaa agaaccgcta gattgctgct taaaaaagat agctttataa 180
aagcgtgttc ttctagtttc catgaaaata atgattagga tcttaaagtt attgatgcgt 240
ctcttattag atctatgttt tgcaatatga attttgatga ttatgggact gatgatgaat 300
caactttgcc tataaggcgt cccaagaatt cggagtcttt agattttgat gcgaaatttg 360
gtaaaagtga gattggagaa gtcacaactt taaataatat tgaaccact agctcggaat 420
t 421

<210> 5751

<211> 431

<212> DNA

<213> *Triticum aestivum*

<223> Clone ID: LIB104-034-Q1-E1-A6

<400> 5751

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actcacacaa ttgggaattt attagaatac tctatgtgct tcacttatat cttttgagtt 120
atatagtttt tgctctagtg cttcacttat atcttttaga gcatggtggt ggttttgttt 180
tatagaaact attgttctct catgcttcgc ttatattatt ttgagagtct tttagaacaa 240
catggcaata ataaaaactt tcatacaagt gcattgaata ctatgagaag tttgatactt 300
gataattgtt ttgagatatg gagatggtaa tatcagagtc atgctagtgt agtagttgtg 360
aatttgagaa atacttgtgt taaagtttgt gattcccgta gcatgcacgt atggtgaacc 420
gttatgtgat g 431

<210> 5752

<211> 417

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-034-Q1-E1-A7

<400> 5752

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gtgatcagcc aaccagcagc ttgctggatc cttctctctg gatgcctaaa atcagtatgt 120
ccatgtaatg taaacatccc tttccctttc cctttcttc atgtagcttc ggtctactcc 180
ttagtagtcc tggtaaaagc ttgtgctctg tagttgcttc agctactggt accctatgat 240
gtgtgtggtg taatatatta tggatcattg tggcattcct ttttcaatca atctgcctgt 300
tgccgcgagt ctgaagatga tcgctgtgtt tgttctctca aatcctgacg aacttgattg 360
ctgaaaaaaa aaaaataaaa aaaaaaaaaa aagcggccgc tctaaaggat ccaagct 417

<210> 5753

<211> 451

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-034-Q1-E1-A9

<400> 5753

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 aacgacaaat aaaactcagc gaggtat tttt ttgggttttt gataatatag atctgaaaat 120
 aaaagatgca aataaagaaa aaggcaaata gcaatataga tctgcaaata tatgatggga 180
 aaatagaccc gggagccgta gatttcacta gtggcttctc tcaagaaata gcatatgatg 240
 ggtaaacata ttactgttgg gcaattgata aaacatcgag taattatgcc gatatccaga 300
 caatgatcat tatataggca tcatgttcaa gattagtaga ctgactcctg cctgcatcta 360
 ctactattac tccacacatc gaccgctatc cagcatgcat ctagtgtatt aagttcatgg 420
 aaaacataat aatgcaataa gaatgatgac a 451

<210> 5754
 <211> 411
 <212> DNA
 <213> Triticum aestivum
 <223> unsure at all n locations
 <223> Clone ID: LIB104-034-Q1-E1-B12
 <400> 5754

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 tcgactcacc agtcgaagtg atgactggct caccaagtga aatgatgaat gtaaatctat 180
 cctgcactgc aagt ttaact gtctatcctg cactgcatct ttaactggcc agttgtatga 240
 ttcttggtt gtcttgtgtg agagcactct atatatgatg agggttctat gttcgggtgga 300
 atctacttgt gatgagaatt taagttctgt gatggcatgt gagatgtaag agcactcata 360
 tat tttatgtg gatcctatat ataaccgggt gatttatcta ttgtgttctg c 411

<210> 5755
 <211> 420
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-034-Q1-E1-B2
 <400> 5755

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 ggtgacggct tcatcgactt cagcgagttc atctccttct gcaacgccaa cccggggctc 120

atgaaggacg tcgccaaggt cttctgaatc agttcatttc acctcagccg tccgttccag 180
gagccgatcc atctacgtac ggcttcgtat atcaatttca tgcaactacc tactccggtc 240
ccgatccagc ctacagttca cctgaggccg gccctaaatt tgtttgatca attcttttgc 300
tactagtagt aactagtgat gatcactgtt gcatcattta tttatttatt ttatatatca 360
tcacaagttt cctgtgattc ttttctttct ataccttttt gtcgatcgtc ggctccagct 420

<210> 5756
<211> 425
<212> DNA
<213> Triticum aestivum
<223> Clone ID: LIB104-034-Q1-E1-B5
<400> 5756

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acaccgatgg tgacggcttc atcgacttca gcgagttcat ctcccttctgc aacgcccaacc 120
cgggggtcat gaaggacgtc gccaaaggtct tctgaatcag ttcatttcac ctacgccgtc 180
cgatccagga gccgatccat ctacgtacgg ctctgtatat caatttcatg caactaccta 240
ctccgggtccc gatccagcct cagcttcacc tgaggccggc cctaattttg tttgatcaat 300
ttttttgcta ctagtagtaa ctagtgatga tcactgttgc accatttatt tattttatat 360
cgtcacaact ttccagtgtt tcttttcttt ctctaccttt ttgtcgatcg tccgctccag 420
ctcga 425

<210> 5757
<211> 417
<212> DNA
<213> Triticum aestivum
<223> Clone ID: LIB104-034-Q1-E1-B6
<400> 5757

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actacatgcg tgaacatgtg ccaagtcaag ccacttgaat cattgaaagg aggataccac 180
cctatcatat cacaacacaa ccatttttaat agcatgttgg cacgcaagat aaaccattat 240

aagctcctag ctaattaagc atggcatgag caactataat ctctaattgt cattgtaaat 300
atgttttcat ccgtaataag ttgaatcagg aacaatgaac taatcatttt tacaaaaaca 360
agataggtcg agttcatacc agcttctctc atcttaatca tttcatcata tatcgtc 417

<210> 5758
<211> 455
<212> DNA
<213> Triticum aestivum
<223> Clone ID: LIB104-034-Q1-E1-C10
<400> 5758

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gctgggcctc cccccggctt ataaagccta gtggggcggg agtccgagtc ggacacgacc 120
cctaggtcgg ttagtTTTTT tttaaattat tccgctcgga agaaaaataa aaagaaatac 180
taaacggact ccaaaaattc cgaaataaat tttcacgggc ttctaaaatc aagccgcaca 240
aggtgaacat ttatttggga cctaaatgca atttcgaaaa acgcacattt ttcctaaatt 300
caaataaaac accaaaaaaa tcttatttga tttttattat taaatcctca atatttcttt 360
atTTTgggaa agtcatttta ttccctctct catatttttg taatagaaat aattgatgat 420
aaaataaata aaatgaaatg attctattct caaaa 455

<210> 5759
<211> 431
<212> DNA
<213> Triticum aestivum
<223> Clone ID: LIB104-034-Q1-E1-C5
<400> 5759

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ttcgatcatg tcaaggaccg gccttgggat cggaatgttt aacacgggcc tgttcatagg 180
tctacaggac aagctcgctg tgtgccggcc tggacttacg gcgttgggca tggcgatgag 240
gttcgctcgt gtcccggcag ccaccgcggt cggagcgcta cttttgggac tgcgtggtga 300
ccttttgcgt gttgccatct tacaggctgc actgcctcag tctgtcggag catttatctt 360

cgcgctagag tatgacctgc acgctgatgt actcagtacc gtggaatag tcggcacgct 420
ggcttcgctg c 431

<210> 5760
<211> 450
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-034-Q1-E1-C6

<400> 5760

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tttgattgaa aagtatgatg ctactcttta caagtatgaa aattttgcca tagttaaata 180
ttgctatgat aattatgctt ctaatgccta tggtaaacct tatatcaagg tctactccgc 240
tgtccaagaa gagactaata ttttgcagga gtctatgcaa gaagaaattg atgagactgt 300
gagctcattg gatgaaaaag atgatgagga gagcaaagaa cagaaggagg aagagcggat 360
tagctacccg tgcccaactt ctaatgagag taactcttca actcatacat tgtttaataa 420
cccttcgtgc ttatcgaagg attaatgcc 450

<210> 5761
<211> 401
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-034-Q1-E1-C7

<400> 5761

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accacgggct tcaaccccca tctaccgag taccgacaag agtaatggct gtgtgatatt 180
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acgtagacgt actctactag ctgggactct cgagtgaagt agtttgctgc ctgtaaatta 300
acaagtgtgt gtgtggctac ctgtgtactc ccatgtgggt gtagcacgta ctgtagtag 360
ctgaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaagcggccg c 401

<210> 5762
 <211> 408
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-034-Q1-E1-C8

<400> 5762

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 aagctgagct cgttccagca ggagatcgtg cagctggcgg cggtgctgaa cggcgaccac 120
 cagctaagca gcctgcagga gaggatcagg gagaggatga acgtgagga aggcacctcc 180
 tacatgagga ggcgcgtgcg gcgcttcttc gaggccggca tgcggccaa gaggatgggc 240
 ctgcgccagc acgagcagat cgtcaagatg aggcctctcc ttaccaccag aatgacctcc 300
 tcccctgcag atcaagatga tagtccgtag agagcaacga tgcatacata cataggatga 360
 agattgatgt tggaattacc aaaattctta gtactacaca tacatata 408

<210> 5763
 <211> 202
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-034-Q1-E1-D1

<400> 5763

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 ggggccagct caaaaggatc caatcttact taccctgaa agcaatgtca tagcccttca 180
 atagggtcac caaaattcaa tt 202

<210> 5764
 <211> 452
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-034-Q1-E1-D10

<400> 5764

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agagagagag agagagagag agagagagag agagagagag gccaacagaa acagagtgg 180
gctctgatgg atacaacgct cgtgggtataa aaaggtgcct ggtccaatta aaagagtgca 240
tccttatgat tgtgtaaggt ttggccaatg gaaaatgaat gttttggtgt catcatgatg 300
atacagccat acaagaacac catgaggggt gttacatgca cgtttccaat tacaattgca 360
tggttcattat tatgttttac tctaaagtgt gctgaaccac ataaagcatt agcgccctaga 420
tacacacaca agagatagat agatagagag ag 452

<210> 5765
<211> 428
<212> DNA
<213> Triticum aestivum
<223> unsure at all n locations
<223> Clone ID: LIB104-034-Q1-E1-D11
<400> 5765

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ttgattctgc tgaaaaacag agactttgcg ctacagagaa aatattcaat aaatcacaga 120
aacgtgcttt tgcattgatt atttttgctg ctgatcaata aacaaatfff ccagtacttt 180
atattttggt agaattttta gagttccata agtttgcggt agttacagat tgctacagac 240
tgttctgttt ttgacagatt ctgtttttcg tgtgttgttt gcttatttca atgcatctat 300
ggccaataaa ttagtttata aaccataagg aagttggaat acggtaggtt taacaccact 360
ataaataaat aatgagttca ttacagtacc ttaaagtagt cctttgtttt ctttcactaa 420
cggagctc 428

<210> 5766
<211> 425
<212> DNA
<213> Triticum aestivum
<223> Clone ID: LIB104-034-Q1-E1-D2
<400> 5766

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agaaggcatc ccctctttcg tctacttcta tcggttaactt tacttggagc aatattttta 120
 tttaccacat gatatgtgtt ttgcttggag cgtcttgat gatttgagtc tttgcttggt 180
 agtttaccac aatcatcctt tctgtacaca ctttttgaga gagccataca tgatttggaa 240
 tttttagaat actctatgtg ctctgcttat atcttttgag ttatataatt ttgctctagt 300
 gcttcactta tatcttttag agcacggtgg tggatttggt ttataggaac tagtgatctc 360
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 aaata 425

<210> 5767
 <211> 443
 <212> DNA
 <213> Triticum aestivum
 <223> unsure at all n locations
 <223> Clone ID: LIB104-034-Q1-E1-D5
 <400> 5767

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 catcgagtcc gactacttcg tggcgtacgg cgtcgtgttc aagaacgacg cgccactggc 120
 caagccgggg gccaaagggcg ggcaggcggg ggcgctgcgt acgttcggca ccaagcaggc 180
 cttctacaac tgcaccatcg acggcgggca ggacacgctg tacgaccaca aggggctgca 240
 ctacttcaag gactgcgtga tcaaaggag cgtggacttc atcttcgggt ttgggaggtc 300
 cttgtacgag aactgccgca tcgtgtccat cgtgaaggag atcgccgttc tcacggcgca 360
 gcagcggacc aagaccatcg agggcgctat cgagagcggg ttctcattca agaactgcag 420
 catcatgagc caaggcnogg ggg 443

<210> 5768
 <211> 347
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-034-Q1-E1-D6
 <400> 5768

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 ccgcgcctc tggtcgctc tggctgcact gcctagacgc ccgatgggaa ctcttcttct 120

ctgtcacgtc gctcttctag gtctgtattc ttctctgttt ctctgttaac atctacgtga 180
 atagattgat ggatagatgc atgtattgat gaacaaatgg tactgctaata gcattgatgt 240
 agttacgggc ttttaatagc aaactagccc ccctatgata ctgtgtatta tactttactg 300
 ctatgggtggg tacacttttc ctgtccgtaa gatcgggttaa ttacgat 347

<210> 5769
 <211> 423
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-034-Q1-E1-D8
 <400> 5769

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 aacagtggaa agttgcatgg caatatatct cggaatggct atggaaatgc cataataggt 120
 aggtatgggtg actgtcttga ggaaggtaaa taatgggttc aataccagcg aaagttgcac 180
 ggtaataaga gaggcttgca aaatggaagg gtgagtgtgc gtatatccat ggactcacat 240
 tagtcataaa gaactcatat acttattgca aaagtctact tagcccttga agcaaagtac 300
 tacgatgcat gccccgagag ggatatatct gtaggaaaag accatcgctc gtccccgact 360
 gccactcata aggaagacaa tcaaaagagc acctcatgga acaaatttgt cacacaactt 420
 tta 423

<210> 5770
 <211> 436
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-034-Q1-E1-E5
 <400> 5770

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 tctcttgttt ttctccaaca tttcatagta ctcggttgat tgatatggca tccgtgaata 180
 agtcttgaac aagctacacc tgaacagggg tttttataag ttcggcatca tggaattcct 240
 tttgttctc atgcgaacct catttcatga aaggttcagt ctatctctctt tcttctcttt 300

ttgtaagtgg aaacgaaaca tggaaataga acgatcacat gattctgcag tgtatactct 360
 cgtgtgataa aactaaaaga gatggtaaga tggttttaga atgacttggt caatacttat 420
 cacacattta gctaac 436

<210> 5771
 <211> 387
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-034-Q1-E1-E6
 <400> 5771

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 ctcaacacca aagtgaagca ataatgctgc atcgctcata gctactggaa gtaaattata 120
 tcgataattt aagcatcagt gctagtataa gatgtctact tatgcacggg atgatgccac 180
 tatatgatgg ccagtgttga agtacgaggc ccctatatga tgccctactga tgaagtatga 240
 aaataggcta atgtgtatct atctgtagcc tcctgatcta agggagcacc gtatgtgtaa 300
 tctctgaatg agtagaagac tattatagcg tcaactttga aaaaaaaaaa aaaaaaaaaa 360
 aaaaaaaaaa aagaaaaaaaa aaaagga 387

<210> 5772
 <211> 432
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-034-Q1-E1-F10
 <400> 5772

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 aattgacgat gggctggaaa ctgtcaaata tagaattggc ctttgatggg ccaattctat 120
 gtaacttgta tgggccatgc ttgtaaatgg gcctgactca agtaggccgc taatgggcag 180
 gcccgcttat tttgatagtc ccggcctttt aacctgaatg ggccactggt gggctgagac 240
 atgtgtcaac gtatcatagg cgtgttccgt ccattcgctg gatgacaact gtccgaacgc 300
 cgagccgaca catggatctg ccggacaatg agaattttac acatggaaaa tccccattgg 360
 tctacgctgt taacgggtta tcggatccaa accggaaccc gatagcttaa tggcgaccag 420

ttacggtgga tg

432

<210> 5773
<211> 381
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-034-Q1-E1-F3

<400> 5773

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taccggtctc atgtagtttt tgctttgttt ggtatgttcg ttgtcgggtcc ctcaaaaaa 120
aacaatagtg agtgtacatg gatttgaacc atgggttgca ggactcatga accaactcat 180
ccaaccaaag attctgcaga aagagaggga gcttaaaccg tctcgccata tacgtggcat 240
tcatttacgt tttggaaaca tccatcatgt acgattcggt ttttcaaacc tcctccctat 300
atgtatgttg tggaccacag ttgcgggcgt gttgcgcaa gggttggagc tccagcgga 360
ggagcgggag atggggctac t 381

<210> 5774
<211> 405
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-034-Q1-E1-F6

<400> 5774

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cggggagcac aagaaggacg gcgagcaca ggagggcatg atggagaaga tcaaggacaa 120
gatcagcggc gacggccacg gcgacggcaa gaaggacggc gaccacaagg agaagaagga 180
caagaagaag aagaaggaca agaagcacgg cgagggccac aaggacgacg acggccacgg 240
cagcagcagc agcgacagcg acagcgactg agccagctcc ggccgcgctc cggcagcagc 300
gtgcagtgtg ggcgagatcg atgaacgctt gggagaagtg tggcatacat atatgttgca 360
gggtttggag cgtgtggtag catatgtatg taatgcgtga catgt 405

<210> 5775
<211> 420

<212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-034-Q1-E1-F7
 <400> 5775

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 tattagagtc atgctagttg agtagttgtg aatttgagaa atacttgtgt taaagttttt 180
 gattcccgta gcatccacgt atggtgaacc gttatgtgat gaagtcggag catgatttat 240
 ttattaattg tcttccttat gagtggcggg cggggatgag cgatgggtatt ttcttaccaa 300
 tctaccccc taggagcatg catgtagtac ttgtttcga taaataatag atttttgcaa 360
 taagtatgtg agttctttat gactaatgtt gagtccatgg attatacaca ctctcacct 420

<210> 5776
 <211> 426
 <212> DNA
 <213> Triticum aestivum
 <223> unsure at all n locations
 <223> Clone ID: LIB104-034-Q1-E1-F9
 <400> 5776

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 agtgcctgc gatggtgagg ttactaagag ctgcagacaa tggatggtac attgctgagc 180
 atcgggcaag ccacaatcat tcgctatctc ttacatgcgg ggaaaagggt cactggccat 240
 cccacaaaca cacagatgtg tacacaaagg atctcgtgaa acagcttagg gaaaacaatc 300
 tgaacctcaa caaggtgtat agcatagttg ggagcttctt cggattaaca cagagcgtgc 360
 cttttacaaa aaggtcattg cgcaatctgt gcgggagaat aagcagagac caagttgatg 420
 atgatg 426

<210> 5777
 <211> 414
 <212> DNA
 <213> Triticum aestivum

<223> unsure at all n locations
<223> Clone ID: LIB104-034-Q1-E1-G5

<400> 5777

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gacgacgatg atgagaggaa gccacggcac aagaagcacg acgatgatga cgacgacgat 120
ggcgagagga agccgcggta caagaaacgt gacgacgacg atgatgatga ggatgacagg 180
aagccgcggtt acaagaagcg tgacgacgac gacgacgatg atagaaagcc acgttacaag 240
aagcacgacg acgatgacga cgacgacgat gagaggaagc agcgtcgcgg gaacaaccgc 300
cgccgccatg attacgatga ctgatcaagg catcctgaca tgagtttagc tgacgctaaa 360
taagtatatg cgcggcggct ttgcttcgat gaatcaccag ttcgtanttt tttt 414

<210> 5778
<211> 391
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-034-Q1-E1-G6

<400> 5778

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gggtgaatgt tagagctaatt cttgatattt gtattagcat gtttgagttt tgcattagat 120
caaatcaagt gtggtgttcg cccgacgaag gcttcagggtg agcgcgccaa ggaggtgaga 180
tgccaggatg ccgtgtgagg cggcaagcac ggcgagatgc cgatgggtgct gcgtgagaag 240
cggcaagacg tatcaaaggc tggagccgtg atggactgca tcaaattggg tcgggtgaac 300
cggccgggtcg ttctgtttgt tggactagct gttcatgcgt gagttcgttt actcctagct 360
gagagtatcg ttgctaataa ttgatgcatg c 391

<210> 5779
<211> 457
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-034-Q1-E1-G7

<400> 5779

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 gtttttatgt tttaattagt gtttgtgcca agtagaacat ataggataac ctatgggtgat 180
 agttaatttg attctactga aaaacagaaa ctttgcacgc acgaaattag ttttgttata 240
 tcacataaac gtgcttttgc gttgattctt tttgctgctg atcaatagac aaattgtcca 300
 ggacttacta ttttggtagg agtttttagag ttccaaaagt ttgcattagt tacagattgc 360
 tacagactgt tctgtttttg acggattctg tttttcgtgt gttgtttgct tattttgatg 420
 catctatggc tagtattaag tggatatgaac catagag 457

<210> 5780
 <211> 339
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-034-Q1-E1-G9
 <400> 5780

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 cctcagtaat tcaggccatt gtctcccatg taagaacgag atgcttacag taatgcccta 180
 cagaaagtca gtgggcacat aatcttgggtg ctcacgtgtt ggataaaaaa aaaaaaaaaa 240
 aaaaaaaaaa aaataaaaaa aaaaaaaaaa aaaaaacaaa aaaaaaaaaa aataaaaaaa 300
 aaaaaaaaaa ataacacaaa aggttaaaaa ttaaattaa 339

<210> 5781
 <211> 412
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-034-Q1-E1-H5
 <400> 5781

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 tttagtgcac acctctcgac atctctgcag tccaccggat tcaccatctc taacacacgc 180
 atccgcttac cttcactcaa cagccatcaa gcaaggcggt taatatcata atctccacat 240

cccagccaat ctacctgggc gcacatttat cagaccatca tatcacattc tatgagacat 300
tctatgagac caatcctcaa taccgacgat tctatgccta attctataat catatcagat 360
cacacgccgt tcaagggttag tcttgtaatc agttgaatgc agtctccaag ac 412

<210> 5782
<211> 465
<212> DNA
<213> Triticum aestivum
<223> Clone ID: LIB104-034-Q1-E1-H6
<400> 5782

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gaacaaccag ggcacgttgc taaggaatgc aaccagaacc agaatcaaat ggcccttcca 120
gcaactggcc gtggaagcag tgggtggcagc ggcgtcgccg gtgcggggca gtggcggtag 180
cggcggtgag ggggttcgaga cagggcggtc aggggttttat cccaggacgg gccggcggtc 240
tataaagggt gagcctggag gagtccgggc ctagcacgac ccgtagggtc gttcagttct 300
tttgaaatag ttacgtcag aaaaaaaaaa gactactaaa cggacttcaa aaatcctgaa 360
ataaattttc cccggcttcc aaaatcaagc cgcattaggat gaacatttaa ttggggccca 420
aatgcaattt tgaaaaacat gcaattttcc caaattccaa ttaaa 465

<210> 5783
<211> 417
<212> DNA
<213> Triticum aestivum
<223> Clone ID: LIB104-034-Q1-E1-H7
<400> 5783

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tccatgtatt tttagaagtt catccaatcg tcattttgat cagcgatcac gtcatactgc 120
atatcctcta tcgaggtaga tgcttggatg gacacaatca gttgatctcc gcaccttagc 180
agattcaagc aacaagtgtg tattgccatc aaattgactt tggagagatg gcatgctcgt 240
ttaggccacc cttccttctt ccaggaccaa acacgttctt agtagaaata aactctctgt 300
tggtggggag cataattctg agacgattta tgactcttgc cagatagcac aacaccatca 360

gttgcccttac cctgtttcaa ctaccaattc ggtgaagcca ttgtaactca taatttc 417

<210> 5784
 <211> 310
 <212> DNA
 <213> Triticum aestivum
 <223> unsure at all n locations
 <223> Clone ID: LIB104-035-Q1-E1-A1
 <400> 5784

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 attcgcaaaa tactagattc acaccataat cttttttaaa aggaggcact ataccctcgc 120
 ctactcatcg ccccgacgag catgccgagg agaccaggag gcacacatcc aagggagtgg 180
 gtgtgggcta ggggttcatt tctgatattg ccaatcgtgt ctaccgcccgtgtaatgccca 240
 atcagacgtg cgcgacaaac cttacttggg cctgcagcca gacattttga ctgcagcacc 300
 gatttcacgc 310

<210> 5785
 <211> 299
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-035-Q1-E1-A10
 <400> 5785

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 gcggactgag aaccgggtac tgaattgtca tgatttcaaa tttcggaagg gccttagctg 180
 tcaaattgac ttgtctacaa ttccgcttcg cctgaagtca tctattaccg tccggaggga 240
 gtactatcca atcacgtgat cacctaatat cattctttct ctagcggcgc actcaagcc 299

<210> 5786
 <211> 171
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-035-Q1-E1-A4

<400> 5786

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gcatggaaat cccccgttgc tcggtgagat tcaagcgtgt gtcgtaggga aaatacaatc 120
cgttcgcgct atctagactc tacaattgtg caggatccaa cgcttgggggt c 171

<210> 5787

<211> 435

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-035-Q1-E1-A8

<400> 5787

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gcgactcggt cctggccacg acggtgacgg cgactcgctc ctggccgcga cggcgacgct 120
ggccggcagt cgtgacctga ccgtgacggc gaaccgctca tctcctccg ctccgccaag 180
aactgttaag agtgatttgg aggattcaag attctgtgaa gctcttttga catttaaagc 240
tcagaactga ggttacattg tcataggttc aatatgacgc aaaatagggc taagtggaca 300
gcaaggatat agaaagggtc cgtggaggta cttacagagt acaatctatc tcattaccgt 360
ggtcaaaatg ggtggactac cgaaggatgg aatcaagttg tcaaggaact gaacagttta 420
tatccagagg caagg 435

<210> 5788

<211> 440

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-035-Q1-E1-B10

<400> 5788

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gttcgagggc atcggctacc acctcctcac ctctctctgc cacttgctcg tcatcttct 120
cacggtcagc ttcgtctggt ccaacgctgc gtccttcac aacaggcttc ctccaaagtt 180
ccctgaggtc attttatctg aaaccaatg cctgataata gctcatgttc tgaggaaaga 240
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cctcaagtca attggagtcc tctgggtcat ttctataatt gggggctgct tcagcttctt 360
gactctgtct tacactatctt tctgatggc atacacgctc cccatgctct atgagaaata 420
tgaagatgaa gtcgatgttg 440

<210> 5789
<211> 115
<212> DNA
<213> Triticum aestivum
<223> Clone ID: LIB104-035-Q1-E1-B11
<400> 5789

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tccggtagga catcctcggc gtcttatgca acctccgctt cacgttcgct accgt 115

<210> 5790
<211> 463
<212> DNA
<213> Triticum aestivum
<223> Clone ID: LIB104-035-Q1-E1-B12
<400> 5790

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gctgtctggc acccttcctt actaatttct ctgcagccat gaacttaaaa ctgaatggct 120
tcaatatgtt caaaggcttc aagggtttt gcttgctggt caaacaggaa cttagcttcag 180
gagagttaat gtgttactgt aagaattctg caaacaaatg cagactatga gaaccaaggg 240
attcttccac ggacatgtac ctgtggcagc attaaagatg cgatggaagg gaagaggtca 300
tatgcattct cagaagattt tgaagataaa tcagtttgaa gacattgacc tcatgttgcg 360
aagacattca cttatgtgtt gagtgttggt tccagatttg tacgaatcaa tgaataagta 420
caagtgagga atctaactat atgtgaagct taagtgaata tac 463

<210> 5791
<211> 461
<212> DNA
<213> Triticum aestivum
<223> unsure at all n locations
<223> Clone ID: LIB104-035-Q1-E1-B2

<400> 5791

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tggccgacgac ggcgacgctg gccggcagtc gtgacctgac cgtgacggcg aaccggtcat 180
cctcctccgc tccgccaaga actgttaaga gtgatttggg ggattcaaga ttctgtgaag 240
ctcttttgac atttaaagct cagaactgaa gttacattgt cataggttca atatgacgca 300
aaataggggt aagtggacag caaggtatga gaaaggtctc gtggaggtac ttacagagta 360
caatctatct cattaccgtg gtcaaaatgg gtggactacc gaaggatgga atcaagttgt 420
caaggaactg aacaatttat atccagaggc aaggtttacc a 461

<210> 5792

<211> 213

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-035-Q1-E1-B4

<400> 5792

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agcatgaatt gcgcgagaca ggaggctagc atggatatct ccctttgctc tggtatcttc 120
acgcgtgtgt caaagggaga ataccactca atcgcgctat ccagaccgtt tatttgtaca 180
ggatccaacg cctggcatca gaccggccaa aac 213

<210> 5793

<211> 391

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-035-Q1-E1-B5

<400> 5793

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acgggacacc tccgcctcga tcaagtggta tcagatttcc aggttgctcg gtgagatttt 120
acagtttttc gtagttttag tcgaatctgt tcttcatacc tacagtccac gagaaagccg 180
caaaaaaac ttagggtttag ttcatcatat ccgaaccaat ctgagccttt gcataatctt 240

tttagggttt tgctttgttg aatttgcggt tgcacgctcg tgtctagttg ctgggtcttag 300
 agtctagtct tttagagttt cgagttcttg tcataagttg tcatgccgcc gccgcaccat 360
 catcatcgtc gctaccatct atcaccaccg c 391

<210> 5794
 <211> 393
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-035-Q1-E1-B7
 <400> 5794

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 gctcggggcgg ctgctccgc tacacttccg gcgacgaaac agggtcagac aagctcattg 120
 tggagagggg aaacgaggag agcaagcggg gcggttgag atccccctac ggcagcgata 180
 acgttcggcg gcgacggcgg tctgtggcgc tcccccgga gatcggtttt ttctaatacg 240
 aggcgtgcgg cgagcggaag aatcggggaga aagggtgcgg cgttcctcgc ggagtcttgc 300
 ccgtgtacgg tgtctctgag gagcatggga tcgaacatgg ggcagatca atctgggctc 360
 cgctcggcct gttcgcgctg tgcgtccgtc cca 393

<210> 5795
 <211> 398
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-035-Q1-E1-B8
 <400> 5795

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 tctocaagaa aactgacaat gagtggtttt gcgacataga gtactcaacg aagcagtaca 180
 gagctccatg ggagggatgc ggcacgtgaa attttggttca ctacgagtga ctttgtatgg 240
 ccggagcatg gtctagtttg tgcacaaagc tttgtacca gcgatttagt tactaagttc 300
 agtaattcat tgaatcaaca ttgcttgga tccagggact taatgctgtg aactcgtttc 360
 ttccaaatga atcaacgtgg cttttttatt tatatgat 398

<210> 5796
 <211> 406
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-035-Q1-E1-B9

<400> 5796

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 atggcaaata atgtaatgcg ggagataggg attgtgatgg gtacttggtg tgttgacttt 180
 tgcgcagacc ccccggcaac cccgcaaaaa atcctcctgg caactccgga aactgcctt 240
 gggattcccc caagaagaaa agaagattcc aaaaagttac cttagttatt cccaagtgtt 300
 ttgaaaacca aggtatcaat ccagtaggag gctacgcgcy agtccctcgt acctacacaa 360
 aaacaataac tcaatgcaac caactgctt aaggattgtc aatccc 406

<210> 5797
 <211> 455
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-035-Q1-E1-C11

<400> 5797

ggtctagaat tccccgggtcg acgggatctc cctctcatta cattatttgc catatgcctc 60
 tcattttcct ctccccaggt tcacccttgc cgttttattc gccctctctt tcccgctcgt 120
 ctccctcttt cgcttgctc ttgtatgctc gttgtcatgg ccagctcggg cttcatccct 180
 tcgtctcccg acattgaagt ccttcacttc aagcatagac aaggagaaaa tttaaaagat 240
 gcttggttta ggatgctaga atcttatcgt ggttgcaata tagaaggaga tttcaaaatt 300
 ttacttcaca atttttacgt tggggtaacc atatccata gacaacttct tgattttgct 360
 gccaaaggga gttttattga aattgatcct agcttcgctt atgaaattat aagggggata 420
 gtaggagtag tccccctaca aaatgggtca accct 455

<210> 5798
 <211> 480

<212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-035-Q1-E1-C12
 <400> 5798

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ggcgatgatg aggaaagggg cccccgaggg ggccaacccc aagaaacggc gcgacgtcat    120
gctataggag acggcggggt ggtggaggaa gccgcgggcc gatcggcgac agaacagcaa    180
gcgatcgagc gcgcgtacga ggccgctcgc aacgacgacg acgatgggct cgtgtacatt    240
tttcacagaa ggggtcgagt agcaaagtgt catatatata ccgtgggatt gggaatcgaa    300
aatgttcgta cgctgtcggg cgctcatctt cttcttctct ggttctgctg gttcccttga    360
cttgtagta tgtatacatc agttgagtaa gttggcattt tttagcctga atttgtacac    420
ggtttcaggc ttggaaatgt acaggtatgt aacttgagtg aactaacgag tgtgtttttg    480
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<210> 5799
 <211> 448
 <212> DNA
 <213> Triticum aestivum
 <223> unsure at all n locations
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 <400> 5799

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agctccgtta gcgaaagaaa acaaaacacc atttcaaggt aatgtaatga actcactatt    180
tatttatatt tgtgttaaac ctactgtatt ccaacttctc tatggtttat aaactatttt    240
actagccata gattcatgaa aataagcaaa caacacacga aaaacggaat ctgtcaaaaa    300
cagaacaatc tgtagtaatc tgtaactaac gcaaacttct ggaactccaa aaattcagcc    360
aaaataggac aacctagaaa atttgtttat tgatcagcag caattggaat anatatttta    420
tcacgttctg gttattttta acaattat                                     448
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<210> 5800
 <211> 455
 <212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-035-Q1-E1-C4

<400> 5800

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tctggatccc caccattatc aatacctcat atatatttgc aatattcaga ttgctttatc 180
atattcttgc tcgttcttcg attgcttgca ggaatagacc ttcgtgggtca ggctgaccgt 240
gcttccggcg tcgtcagtaa cctcaggaga ttggtttagc gattgttaag gcgcaacgtc 300
atgcacgttt gtagtcggat tgtcaaagtc gtctccacca aatcgatatt tatcatctca 360
tcgaaagatc gggacaccct cgcctctatc aagtgggtatc agttttcagg ttgctcgggtg 420
agaattttta gttttcgtag attagattta ttttc 455

<210> 5801

<211> 450

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-035-Q1-E1-C7

<400> 5801

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aaactttaca ttccatagtgc cactggggcg ctgccaagca agaggagctg tctgctagga 120
ccccgttggg tcttctagcg atgcagttac tgcataacct agagaagaat tcatttagga 180
gagtactgcc ccgctttttc ccgctgttga ttgatctgat tcgctgagag catagctctg 240
gagatgttca acacgcgctg tataaaatct tcaaatactc aataggcccc atgatagaag 300
tataatggca cattcctgtc ctgttagggc cacgattttg tgtcaacatt ctgacatcct 360
gaatgagccc ttcaagatcc tggagttcaa gtgcatatta ctagtccaga tatcaggcat 420
aaagaggaaa atacattttt gcttacatcc 450

<210> 5802

<211> 397

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-035-Q1-E1-C8

<400> 5802

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ggccccgcgg acccaaacac catcctccgc gtcttggtgcc accgcgacga cgaggccgcc 120
aaccagttct tgaagcgcac gttccagctc gccaaagcggc ggtgatgtcg gccaaatgct 180
cgaagaatga gtctaggtgc tactatactt ttttagtccc attactgcaa caacaacagt 240
tgccggtacg tgggctgtat ctgtgccagc ccaagtgagc ggcctatgta atgcgttcag 300
gtgtgagtgt gccttggtta atagccgttg ctaaagcgtg aggggttgagg atccatgtac 360
tgccaagtgc caacttcctt aaaaaaatg tactatc 397

<210> 5803

<211> 433

<212> DNA

<213> Triticum aestivum

<223> unsure at all n locations

<223> Clone ID: LIB104-035-Q1-E1-C9

<400> 5803

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caaaaatatt cgaaacgttt ataaactaca ctctgggttt aaaagataaa atacattcaa 120
acttggaat catatgaaaa aaaacatgag tgagtagaac atggcattga ctctgccaca 180
aactagctat ggcaaaagct gtcagcattg atggaggaag tgcaaatgg ggacgcatat 240
gcatgtgtaa ccaagtctcg aactagatga acggctgcac catgcatggg atatcccggtg 300
catgcagtgg cggatccagg gccagggccc aggcctgggg cgcgagagaag atttccttcg 360
tgtgtatatag cagtatgtgc actgtagctg tactgtagca gagggtanca gcctggggcc 420
cggggctttg ccc 433

<210> 5804

<211> 445

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-035-Q1-E1-D10

<400> 5804

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 actgggcaac gggaaatcat gtaccgtctt gtctggattt tccttcgtcc agttgatgat 180
 agctggaacg aagttagtag cgaaatcatt tctgcaggca gttacagctg cattgactgc 240
 ctgctgtagc aactcatttt tctcctcggc tgtttttttc gcgtcctcgg ctgctttttt 300
 ctgcaccgca agcttcacct tctcattgat gtccgcctga ctaaacttct ttttctgctt 360
 cttggcctcc gggacctcgt tgtaaaacac cttccatgtg acgccgtctc cagcgccgtg 420
 cacacgaccg tattgcggcc gctct 445

<210> 5805
 <211> 444
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-035-Q1-E1-D12
 <400> 5805

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 ttgcacagtc actttaacat gcaactctta gttgatcaat ctccagttaa gcagcctaac 180
 taggctgtag tgctaaaact gatcagacga ctgcaattcc tgctacgttc tccagtgtgt 240
 ttcaagacat cttgagtttt atgtgaactt gtgtccactc tgatgtaacc ggaatgctgt 300
 ttggcccgtg tgtaatatat ttcttcacct ggatctgctt gactcatcta tcatcaatgc 360
 aaaaccggtg ttacgtatcc gaatactcgg tttgttcatt cgccacacgt ccctagcaga 420
 actaaactgc aaactttccc ccac 444

<210> 5806
 <211> 404
 <212> DNA
 <213> Triticum aestivum
 <223> unsure at all n locations
 <223> Clone ID: LIB104-035-Q1-E1-D4
 <400> 5806

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 aggaaagtca tgggtcttggg tagacacgag cttgtcctta gtccctcatc gagacgagta 120
 tgtccggtat ggcatggtga ggtttgatga gtgggtgattt attccactag tggtaatat 180
 gttggaggat acttggacca cctgactcgg tcgtangccg agtcttgatc agtaccttcc 240
 ctatttgttg gtaccaccac ttgtccctgt cacagacagg gtatggttta gtaagttggt 300
 aacccttac caaagcacac atcgtagaga gaggccatgg tggaagatac cggaggcctc 360
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<210> 5807

<211> 407

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-035-Q1-E1-D5

<400> 5807

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 ttccactcag atgggtttga gtgaccagga cattgttgct ctttctgggtg gtcacacct 120
 gggaagatgc cacaaggaga ggtccggctt tgaggagacc tggactgcca accctttgat 180
 cttcgacaac tcttacttca ctgagctcct ttgtggggag aaggaaggcc ttcttcagtt 240
 gccgaccgac aagaccctcc tgactgacct ggcttccgc ccacttgtgg acaaatatgc 300
 tgcggatgag gatgctttct ttgctgacta cgctgaggca cacctcaagc tatccgaatt 360
 gggatttggc gaggtgttg acggctgctg ctgattcaag ctgggcg 407

<210> 5808

<211> 432

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-035-Q1-E1-D8

<400> 5808

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 tggagatccg caagaatttg gatgctatgg atgaaattga gaggcggagt gcggaggact 180

atgagaagtt ccgtaagaag ctaaacaata ttgagaaagc atgcaatggt gctttgatcg 240
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 ttataagaaa cccttattta actagtgggt taagaaaccc taccttcaga actctatgtg 360
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 actcggtata ag 432

<210> 5809
 <211> 445
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-035-Q1-E1-D9
 <400> 5809

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 aattctttcg catccagtcg gagtttgcgg aaatcatcca tcaagatgtc ctccgttcc 120
 cggggcagtt ctacctcaga aatcaaccgt ccaacagtga catggacaca atgctacaaa 180
 tgcaggctga caacgaccgt tatttcatga ctcccacgat agacggcggc ttcattccag 240
 ctccggtccc ttgagtcgag tcgaaagtag tgatgctgtg tctagttctg aaacatcgat 300
 tggctcatgt tgtaattaaa ctttaatgaa cttgtagtat gtctctttgg tttcgagagt 360
 cgttcaactt agatgtaatc gatgctatta atgtcttgc tttctcttcc aatcattctg 420
 ttgcatactt atatattgcc taagt 445

<210> 5810
 <211> 455
 <212> DNA
 <213> Triticum aestivum
 <223> unsure at all n locations
 <223> Clone ID: LIB104-035-Q1-E1-E1
 <400> 5810

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 agacattcca agtaccatc acaaactcat ctccctcgca ttacattat tttccatttg 180
 cctctcggtt tctctcccc cacttcaccc ttgccgtttt attcgccctc tctttcccaa 240

tctcctcctc tcttttttgc ttgctttctt ccaacttgct tttgtttgct gttatgttgg 300
aaattgggga aattatcgtc gatacgggca ataatgataa catggaaaat tctgaggctc 360
cggctgaaga acccctatct tgcatactaa aaagtttcga atcggtagtg gtaacattat 420
tggaaggat gttattcaag atttcattac ttgta 455

<210> 5811
<211> 445
<212> DNA
<213> Triticum aestivum
<223> Clone ID: LIB104-035-Q1-E1-E10
<400> 5811

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acaaggaccg cctcgaccg gcgctgctgc ggccggggcg catggacatg cacatctaca 120
tgggccactg ctgctgggag gcgttcaaga cggtggccgt aaattatcac ctctgggacg 180
accatgctct gttcccagag atacaggaac tgcttgccgc ggtggaggtg aaggtgacgc 240
cggccgaggt gtccgagatg ctgctgcgga gcgaagacgc cgacgttgcg ctacgggtgc 300
tgacggagtt cctccaggac aagagaagca aggcaagaaa agaggcaaca gaaatcaaga 360
tcggcgtagc agagaaggca atgtagcagt agtagtagta ttcagtgtca gtatcccctt 420
caacgggacc gttttattgg aggag 445

<210> 5812
<211> 465
<212> DNA
<213> Triticum aestivum
<223> unsure at all n locations
<223> Clone ID: LIB104-035-Q1-E1-E11
<400> 5812

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agcgcaggaa cggcctgctc aagaaggcct acgagctctc cgtgctgtgc gacgccgagg 180
tcgcgctcat cgtcttctcc aaccgeggca agctctacga gttctgcagc acccagagca 240

tgacgaagac actcgacaag tatcaaaaat gcagttatgc aggacctgaa actactgtgc 300
agaaccgaga aaatgagcaa ctgaaaaaca gccgcaatga gtacctgaaa ctaaaggcac 360
gggttgataa ttacagcga acacaaagga atttgcttgg tgaagatctt gattcattan 420
gcataaaaga gctcgagagc cttgagaagc aactccaatc aacct 465

<210> 5813
<211> 454
<212> DNA
<213> Triticum aestivum
<223> Clone ID: LIB104-035-Q1-E1-E12
<400> 5813

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gatcagcggc gacggccacg gcgacggcaa gaaggacggc gaccacaagg agaagaagga 180
caagaagaag aagaaggacg agaagcacgg cgaggggccac aaggacgacg acggccacgg 240
cagcagcagc agcgacagcg acagcgactg agccagctcc ggccgcgctc cggcagcagc 300
gtgcagtgtg ggcgggatcg atgaacgctt gggagaagtg tggcatacat atatgttgca 360
gggtttggag cgtgtggtag catatgtatg taatgcgtga catgtctcat ggatcctgtg 420
atgtataata attaccggcg tgcactgcac tgca 454

<210> 5814
<211> 449
<212> DNA
<213> Triticum aestivum
<223> Clone ID: LIB104-035-Q1-E1-E2
<400> 5814

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gacgagctcc tcgacaaggt gcgtgtcatc caggccgaca cgctgagcat gatccagggc 180
ggcttcaccg gcgggagcac cacctccgag accagctgcg aggcggtccg gctgtcgtgc 240
gccacgcttg tggagcggct caagcccacg aaggagagca tcgagtcaa gtccggcgcc 300

cctgcgccat ggaaggcctt gattaccag gcgaccatgg cgagcgtgaa cctgtcggcg 360
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agcgagggtg aaatcgacgt gctgaccgg 449

<210> 5815
<211> 390
<212> DNA
<213> Triticum aestivum
<223> Clone ID: LIB104-035-Q1-E1-E5
<400> 5815

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tttgctcagg aagctgtgct gcaagtatct gattgggggtt tcagcttggtc agatattcaa 180
atgcagaaga aagaggatca gggagtattt gaatttatga agtctctgtt cagtcaggct 240
gaacgagagt ggggggggatt tctgggcca atccacattt ggcaggggaat ggatgaccgg 300
gtggtgcccc cgtcggtgac cgagtttgcc aggaggatgg ttccaggagc cactgtccac 360
aagcttctcg acgaaggcca cttctcatac 390

<210> 5816
<211> 452
<212> DNA
<213> Triticum aestivum
<223> Clone ID: LIB104-035-Q1-E1-E6
<400> 5816

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atgaagtgtc cctggcctgt gcatccttat gagtggcggc cggggacgag cgatggtatt 120
ttctaccat tctatcccc taggagcatg cgcgtagtac ttgatttttg atgacttcta 180
aagttttgca ataagtatat gagttctttt gactaatgtt gagtccatgg attatacaca 240
cttttacctt tccgcctttg ctagecctta cggtagcgtg catttccctt tctcaccttg 300
agagttgggt caagcttcgc cgggtgcatcc aaacccccgt gatacgatac gctctatcac 360
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ttccatagcc attccgagat atattgccat gc

452

<210> 5817

<211> 434

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-035-Q1-E1-E8

<400> 5817

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caataatgct gctgcaacaa tctcatcgat cttacaaaaa actagcaaaa gggctctgtgt 120

gttacaacag cagaaaaaaaa atcataatct ccaaaggcca tagcaacatt ttgctgcaac 180

accgataaca ttttcacgaa cattctgttc aattttatta acattttaat acacaaactt 240

ttaaaaaaaa tcatgaacat ggtttgattt ttcaaacatt tgttttcaaa tttgcaaaca 300

ttttcttgat atggaagatt ttttataaaa ttataaacat ttttttaacc cacaaacatt 360

ttatgattta ttgagcattt tacttaaaaa ttctcctttt aaattatttg aagttacaaa 420

tttattaaag gagg 434

<210> 5818

<211> 462

<212> DNA

<213> Triticum aestivum

<223> unsure at all n locations

<223> Clone ID: LIB104-035-Q1-E1-E9

<400> 5818

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ttttcatcta ctttctgttt agatgtgttt ttatgtttta attagtgttt gtgccaagta 120

gaacctatag gataacctat ggtgatagtt aatttgattc tgctgaaaaa cagaaacttt 180

ggcgacgaa attagttttt ttaaatcaca tatacctgat tttgtgttga ttctttttgc 240

tgctgatcaa tagacaaagt ttccaggact tcctattttg gtaggatttt tagagttcca 300

gaagtttgcg ttagttacag attgctacag actaatctgt ttttgacaga ttctgttttt 360

cgtgtgttgt ttgcttattt tgatgcatct atggctatta ttaagtggta tgaaccatan 420

agaacttgga atacagtagg tttagcacca aaattaatta ag 462

<210> 5819
 <211> 388
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-035-Q1-E1-F2

<400> 5819

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 ggaactatat taagtgcatt cagatattaa gtaggatatt atttgtgtgt tattatgtga 180
 ttagcactat ttttggcatg aaattaacta cacgctaaac gtgttgagcg ctgcacattg 240
 aatcagtcta ggtcattgga tgagaaggaa tacatgcggc ttgatgacgt tttatattta 300
 atttgatatg gatctagcag aacattcaat catcacacca tagatttcat tcagtctgac 360
 tccgacttta cattcatacg atgatcga 388

<210> 5820
 <211> 439
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-035-Q1-E1-F4

<400> 5820

tcgacggggtc ccacaatcat ccatgctgta cacacctttt gggataagcc tacttgatta 60
 ggatttatta gaatatgcta tgagcttcac ttatatcttt tgagcttgat agtttttgc 120
 ctagtgcttc acttatatct tttagagcac ggcgggtggc taattttgta gaaattgcta 180
 gtctctcatt cttcacttat attattttga gagtctttta gaacggcatg gtatttgcta 240
 tggttataaa attggctcta gaatggtagg catccaagtt gggataata aaaactatca 300
 taggaagtga attggatgct atgatcaact tgatacttga taattgtttt gagatatgga 360
 ggtagtgata ttaaagtcac gccagttggg ttgatatgaa tttaaagaat gcttgtgttg 420
 aagttagcaa gtcccgtag 439

<210> 5821
 <211> 449

<212> DNA
 <213> Triticum aestivum

 <223> unsure at all n locations
 <223> Clone ID: LIB104-035-Q1-E1-F5

 <400> 5821

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 gcctaaacac gaggggaacgc aactgaaag tcagagagat gaacgaccgc ttgaccgctt 120
 gatgatggca gagcgagcct tcaccaacag agaagggctc gcagggagac cgtggtacaa 180
 acacatgatt tatgcgtcgt cggaccagga cgactggggc accaaggcgt tccccggcat 240
 cgtctcggcc atggccaacg cacagaagct caacacgtcg gagtcttggc ggctgttgca 300
 gcatgagatt tacaggggtg caagggccgt gtccaaggcc tctgcagtcc tggatggaag 360
 gctaacatga tgccggagta gacatcagca cagcacanca cagcacggaa tttaccggtg 420
 caaataagta gggaaaggga aaaagaatc 449

<210> 5822
 <211> 388
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: LIB104-035-Q1-E1-F6

 <400> 5822

 ggtcaggaat tccccgggccc acgggatggc catccatgtg acctcggaga tgggctagct 60
 cgccaataat cagcgaagta gctagtcccc gaagacaacc acttcatgtg tgtggcccaa 120
 acatatgtat ggagaggtgt gtttttgagt aacaatggaa caactttgat gtggcaccat 180
 gatttcaaac tagaaatccc cacactgagt gagggttagg ttgacgatgc atatgtatgt 240
 tacaccacac ttcaagccag tgacggggat tcatgcatgc atgcgtgcat agtatatacg 300
 gtcaaactta aggtttgaat ctcccggtga cctatactac gataacacga accaaatgaa 360
 gaatccgcca tggttaccta tcttggtg 388

<210> 5823
 <211> 435
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-035-Q1-E1-F9

<400> 5823

gggccagaat tccccgggtcg acgggaagcg gcagtcgac ttagggccact gacgatggag 60
gacctgagggc aggccaaaaa tcaggtcgcc gcgagcttcg ccgaggaggg cgctgtcatg 120
aacgagctga agcagtggaa cgacctctac ggcgaaggag ggctgaggaa taaggagcag 180
ctgacctact tttttagtaa ccggaaggat ggtggatgtg tcgtgttggg caaatcgctg 240
aagccttggc agagcatgag catacatatg ttgggtggaa aaggagagag gatttcctgt 300
gagcaaccgt gagttaggat cttggagtga atggactcct tgagatgtgt ggcagggggc 360
attggatcat gtacgattct tttatacgaa caagtattgt agttattcat tattatatat 420
gtttagctg gtttg 435

<210> 5824

<211> 381

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-035-Q1-E1-G10

<400> 5824

gggccagaat tccccgggtcg acggggacgg cggagaggaa gggcaggacg gcggaagaga 60
gggggagcag gctgaggaac aagtgaagcg tagtaacttg caaggagctt agaattgatg 120
gccatggatg aactcccgag gagcgtgcat ggccaacttc ttgcttccga tcccttccca 180
atgtgttggc atgcatacct gtggttcttg atcatttttc ttactcgtat tggtttcagt 240
gcatccatt ttttgggtgg agatgtgggg tgggcgtcat gggtgagaga ggggtacatt 300
tttgtaatta aattaatgga tggaggaata ataatcaagt ggctataatc atatacaatc 360
tatgggtatc tcactaatca c 381

<210> 5825

<211> 442

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-035-Q1-E1-G6

<400> 5825

ccggtcagga cttccccggc cgacgagggt tgtcaacatt gagacgtgtg actgcacctg 60
tcgaaagtgg aatatttctg ggttgccatg catgcatgca attgcagtat ttgagcgcac 120
tgaggagtat gcatatgact tctgtgtgga gtatttcacg acgaaacggt accgctcgac 180
ctattcaatg tccataaatc cgatacctga tgttacctta acggacaatt ctcagagtcc 240
agegacatta ccattcccaa ttcaaactcg tcgacggggtt ggcaggccga aagagaaacc 300
agctgatccg cgcatacaaa ttaaaagggc agtgcgctgc agcagatgta aaggttatgg 360
tcacaacaaa gcaacttgca aaattcctat cagtggcgaa gccttgcccg ccttgccacc 420
agctgacctc tccgatgtac ac 442

<210> 5826
<211> 442
<212> DNA
<213> Triticum aestivum
<223> unsure at all n locations
<223> Clone ID: LIB104-035-Q1-E1-G8
<400> 5826

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agaacttgac tacggacatg attttaaggt ccctttgttt aagtgcaaat ggggtcaatct 120
gtcaggaggc ggggtacagg tagaccaca gtagggaatg acaacagtgg atctcaacaa 180
tcttgcgat gcagacgaac cgttcgtcct agccaatgat gtggcacagg ttatctatgt 240
gaaggacatg tctaccaaac cgagaaaaag aaaagataag gaagcgaata catcatacga 300
tgagccaaag cgccacatag ttctttcagg aaaaagggac atcgtgggag tggaggtcaa 360
gacagacatg tctgaagatt atgaaaagtt tcatgaaatt cctcncttca aagtcaaggc 420
tgaccaagc atcctgataa ac 442

<210> 5827
<211> 459
<212> DNA
<213> Triticum aestivum
<223> Clone ID: LIB104-035-Q1-E1-H11
<400> 5827

ggtcacgaat tcccgggtcg acggggtgac aagaggagtg taaccacttt ctttgaatca 60

tttgcctcgt ctctataatt gcccggtttta gttagtgaag aaaatcacct aaaaaaagtt 120
 agtgaaaaaa aaacaagtga aaaccgtcac ggcaattcat agggcaacgc tggccgatct 180
 gactacccgc gtaaagagat acacgttggtc aagaagagaa catcggttgtt tcgttgagat 240
 tgtcatgaag tgtcactgtc gtcacttctc cagcaggcaa cggctccgac ttcaccattg 300
 acaaccgtca acggaaccct tactgaaaca aacgagactt tgacaatgag ccttgcaaga 360
 gaaaaatgga agaaatgccc aattttttat taagtttgat attttggtatg tcaatatttt 420
 tctgcttaca ttgtaccaca aaattgcac gtgtcaaaa 459

<210> 5828
 <211> 347
 <212> DNA
 <213> Triticum aestivum

 <223> unsure at all n locations
 <223> Clone ID: LIB104-035-Q1-E1-H12

 <400> 5828

tcgtattata ttataatanc ntatagtgaag tcgtattata cggttgagtc tttgcctcgt 60
 ctctataact gcccggttga gccagtgtat accctcagct ctgcaaactt gatgtcgacc 120
 ccacacctca cgaccctctc ggcatttcat agggcagctc tggttcgctct gactacgctc 180
 gtacatacat ccctgttggtc actaacagaa catcggttgtt gccctgagat totcatgaac 240
 tgtcattgtc atcacttctc catgacgcaa ccgctccgac ttcacgattg acaaccgtca 300
 ctggatccct tactgacgga ctaccgactt ttgacactga cccttgc 347

<210> 5829
 <211> 410
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: LIB104-035-Q1-E1-H5

 <400> 5829

ggtcaggaat tcccgggccc acgggagagc ttagatagta gagttgggaa atccaaaacg 60
 gtggatgttc ctgaaaagcc acgaatgagc tcagatgacg ttgacaagtt taggaggaga 120
 agatgcttgg tttggtgatc tatgatatga cgtctgcaca gttcatggag tagtttccga 180

acaccatgga atggggatca agcaactgtg tcatactgta tagcgaggaa caacgccgac 240
 agttccccga gtagagggat aatagctgtg ttaaagtgtg gagaagaaga atgaggacgc 300
 tgggtgaataa gctgttattt atcaaagagg gtacgtctca acatggtaac tttctcggtt 360
 aattaacctg tattgcaacc cccagtgggtg gtaggatttc atcatgtaaa 410

<210> 5830
 <211> 330
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-036-Q1-E1-A10
 <400> 5830

ccctatagtg agtcgtatta gggactagac gtggtagatc ggactcagct ctccttcatt 60
 ccgccaagga aaaatcccat ccgcgagcac ctccccatac gcacaagaaa gcgcacctcc 120
 cttgtgtcat gcaggaggaa aagatcgctc tcttcccgaa cccgtcccc tcaaggatga 180
 tgcgctgcct acgagactga cgggcagaca ttctctttga aagaccgaca cgcgtcattg 240
 ttgatcgagt tccccgtgc atcgtaaagt gagatgccga aggagagcgc ctttaaggctg 300
 gtctgggtcga gaggcaattg cgggaagagt 330

<210> 5831
 <211> 244
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-036-Q1-E1-A11
 <400> 5831

tatagtgagt cgtattaaaa catacgactc acggaaggga gtcctcgtca cttgggtgac 60
 tcacgctcgc gtctccgaag aaatcgaacg cagcacacg acgtcgcagg acggatttct 120
 gggaccattg ccaggagggt cttcgtcaa gtcaagacag accaggtacc catcacatag 180
 gccatctccc tcgcatttac aggagttgcc atttgctctt cggttgcctc acccccactt 240
 cacc 244

<210> 5832
 <211> 57
 <212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-036-Q1-E1-A8

<400> 5832

tgagtcgtat taaaaaatac gactcactat agggagtcgt attaagtggc acgactc 57

<210> 5833

<211> 369

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-036-Q1-E1-B10

<400> 5833

tggtccaccc tatagtgagt cgtattaagg aactgaatat ctgggtgcagc cgcttggccg 60

tgctgaagac gaagagcatt ccagtgactt cgagccagaa gaagatgggtg atgggtgctga 120

ggacgaggag attgacgatg acgatgctga ggatgggtgag gatcctgtca aggcgcaatc 180

ctcatcaaag aggaagaggt ctgggtgggga ggatgaagat gatgaccaca gtgatgatga 240

tggtgatgat gatgagaagc ctgatcaaa gcgatagtca atttgttcgt gctgatctgt 300

gatcttctct gcttggggcca agaaggaaga taatcctcat ggagaggatt gttggtaaata 360

gctgtagct 369

<210> 5834

<211> 399

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-036-Q1-E1-B11

<400> 5834

accctatagt gagtcgtatt agctgcgtgg tgacaagtac agcactgatt gcctcagctt 60

gtacttatac ctggatgcat cggatgagct ccatctcgag tccaagatgg tggttgtgat 120

gactcgggtcc atcctggacg aagtgaatgg gaaacacttg actgcaactt caggtctctt 180

agtgtttacg ggtggatgag gctggggatg ggctgatttc cttggactca agaattctca 240

ggacccgtcg ggaggctatg ttgtgggatc gagctgcgtt gtgaaggccg atctcactat 300

cgttggttca tccaatgatg gttagatgtt tacctcatgg cctgatggag agataatgcc 360

cttacatcct acgtatgact agacttctat ttgagataa

399

<210> 5835

<211> 338

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-036-Q1-E1-B12

<400> 5835

gtgagtcgta ttagatctca cgactcacgg aaagacgtag cctacacttt gctgcatcac 60

cctcgcccct tcgaggaaaa ccaacgcaag ctcaagacgt agcaagaaaag atttctggca 120

gcattgccag agaggtcttc gcgcaagtca agacatagca ggtacccagc agaaacccat 180

ctccctcgca ttacattat ttgcgatttg cctcgcggtt tctcgcgcc cacttcagca 240

ttgccgtttt attgaagctc tctttccgaa tctccgcctc tcttttcgct tcccttcttt 300

tgtgtgctcg tttgcttggt tgaccttatg ggcgcgcc 338

<210> 5836

<211> 443

<212> DNA

<213> Triticum aestivum

<223> unsure at all n locations

<223> Clone ID: LIB104-036-Q1-E1-B7

<400> 5836

ggtccagaat tcccgggtcg acattgtgca aagctgggga tttggatggg gcgttgagg 60

tgcataagaa gagtgggcag ttcaagcatg tcctgggtgga tccgaggcag tacggtgtgt 120

tgatggagag cttgtgtgca ggtggtaagt gtgatggtgc tgtgcagggtg ctcgatgagc 180

ttctagagaa gggcacactg cttagcccaa agagtccagt gatggaagca ccggcttata 240

atccagtgat tgagtatttg tgcgacaatg ggaataccaa caaggccgag acgttcttca 300

ggcagctgat gaagaaaggt gtggatgaca agtctgcatt caacagtctt atccgtgggc 360

atgcaaagga aggtgcgcta naggccgcaa aggagattct tgccattatg acacgccgtg 420

gcgtccctac tgaccccaact cgc 443

<210> 5837

<211> 459

<212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-036-Q1-E1-B8
 <400> 5837

ggtccagaat tcccgggtcg acggggaaga tcgtatggat ctgatgagag ctgtgattat 60
 tggagcaagt ggcacaccat atcaagatgg tctgttcttc tttgacttct atcttccacc 120
 tgagtttcca cgagctcctc cgtcggcata ctatcattct ggcggcctgc gtgtaaatacc 180
 aaacctttat gtggatggga aggtttgttt aagcctctta aatacttggga ctggcagagg 240
 gaatgaagta tgggatccat cctcatctag cattctccaa gtactagttt cactccaggg 300
 gctggttctc aatgaaaagc cctatttcaa tgaagctgga tatgagaagc aagtcggtac 360
 tgttgaaggg gagaagaatg cactgccata caacgaaaac acatatctgc taagtgtgaa 420
 atccatgttg tatatcttga ggcgacctcc tatgaattt 459

<210> 5838
 <211> 461
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-036-Q1-E1-C3
 <400> 5838

attccagggg cgacgggggca atgaaacacc caatTTTTTT gtgcagttcc accaaaatcg 60
 agcatccctg ttggcacata tattgagaga gtgagattac tgtaaatagtg ggactacttg 120
 atgaaacata cactaacaaa tagaagcacc gtcattatct taatgggtaa agtttagcaac 180
 atagtagtct tgcttaaaga gaggtattag tttattttaat cagtgccaat tagctcaaca 240
 ctcaaagcat taccatttat cataggttgc aaaactttta tgtgcaaaga taaaggagtt 300
 tctcatgaca gtagcacgat acaaataagag atgacaacaa actaatatgg atgaaggcct 360
 taggcccgtg acaacgtgag aaaaaagct tattcatgta gtcccataag agatgataaa 420
 gcactcactg gaatcacact atagtatata tttttgtgca c 461

<210> 5839
 <211> 436
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-036-Q1-E1-C7

<400> 5839

gatgggaaac cctaaagtga gtcgtattat tttataaaaa ttatagtatt attgaaacca 60
aaattatata aaatttatgc aactaaaatt atcaaagtat tttctgttca aaacattaaa 120
agaaaaaaga attttcataa agaaattttt tgtagaagaaac tttaatagca gaaagaatta 180
tcataaagaa ttttctgtta gaaactaaaa taacaaaata tggttttgaa tataatgata 240
aaacacagta atatttaata gcatgaaaaa agaactactc aaaaatctac ttttatagta 300
aagctattca aaaactagtg actcacacaa atttccaaaa attcaaattt aaactattca 360
aattagaaaa caaatggcac taacagaaag tttaaatttt ttagtacata aaagcaaaag 420
gaatcactga aaaact 436

<210> 5840

<211> 412

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-036-Q1-E1-D2

<400> 5840

cctatagtga gtcataatat gagcgagaca cctttgctaa aaaaaacaag cggcacatta 60
acataaaatt ctttttcctt atgtttgttt ctttttctt cactttagaa aatgttccag 120
aaatatatgt ttggacaagt attctcatta aggggttggtg tattctcatc atgcatctct 180
aataagtgtt cacctattta aaaaataatc attaactaaa aagttgtcag tattgtcaaa 240
aggctcacat caataaaatt ttctcggac atttccaaaa aaaaaaactc taagttgaat 300
agtttctaga tgaaaccgca aacattttca caagtacata ataacatttt caaaaaacaa 360
acaagaataa caattttgaa atacaccaca tttttctaaa acaacaacat at 412

<210> 5841

<211> 447

<212> DNA

<213> Triticum aestivum

<223> unsure at all n locations

<223> Clone ID: LIB104-036-Q1-E1-D5

<400> 5841

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atcatttacc tactcgagga cgagcaggaa ttaagcttgg ggatgcttga tacgtctcca 120
acgtatctat aatTTTTgat tgttccatgc tattatatta cctgttttga atgattatgg 180
gctttattat acacttttat attacttttg ggactaacct attaactgga ggcccagccc 240
atattgctgt tttattgcct gtttcagtat ttcgaagaaa aggaatatca aacggagtcc 300
aaaaggaatg aaaccttcgg caatgtgatt ttttgaaga atatcatctt ggagacgtgg 360
actccaagtt agaagatact cgaggactcc acgagatagg agggcgcccc cctgtanggc 420
gcgccccctg tctcgtgggc ccctcga 447

<210> 5842

<211> 321

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-036-Q1-E1-D6

<400> 5842

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ttcaaataag tcatacaacg tccttggtca accgtcatgc tccagttcag tagagaacta 120
cactatgatt ttttgatcta caagagtaaa catatatgca tcatacggcg gccgctcgat 180
atgattcaaa cgtaattagc atgtgctgaa gatctcactc ttcattagtg gcagttacac 240
tccattcaat gggcgctgctc atataacgctc ttgactggga aatccctgta gttcactcac 300
gtaaacgcca agcatcacat c 321

<210> 5843

<211> 412

<212> DNA

<213> Triticum aestivum

<223> unsure at all n locations

<223> Clone ID: LIB104-036-Q1-E1-D7

<400> 5843

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cgtgggggtg ttgctggagt cgtactaggt cgaggctgac cggggacgga ggaggagggc 120

gctgacaggg acgccgccgg ttccgtgaag aagaggaagc agagaagcat acgacgagga 180
agaagccttc ggggtcctcg tggtcgctg cgaggggtgag gaagacgacg aagaggggtcg 240
gggttctctc cccgtggcag caacgcagac gacggagggtg ttcaggccgg ggacgagctt 300
aagctctcct catccagggc gacggctatg gtgggcgacc tacctgggtg ctgcagcagg 360
gagaggggga aatggagaga ggagaggcta nggtanggtt tggagaagtt tt 412

<210> 5844
<211> 144
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-036-Q1-E1-E11

<400> 5844

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aagtcggtcg ctcaagaaga tccacgctta cgtacgcgag tatacgaggt cagagctcta 120
cgaaaatgtc accgaacttc aatt 144

<210> 5845
<211> 377
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-036-Q1-E1-E12

<400> 5845

aagtgagtcg tattactgct agcatatccc aactactca cgctaacaat gtcaattatg 60
ttctcgagg agcttcccag ctacacagca ctctgctac ttgttcttcc cctgtactac 120
ttgtactcca aggctagttg tagattaaag aagcctgcag tgctccccac aaactggcca 180
atattgcaca tgttcccttc ctctctggcc agcctccaca agatgaatga ctatttcacc 240
ctggtcctcg ccggatcagg cccaacttc agggggcacg gcccaccggg gaccgggatg 300
cggttgttcg tcacatgca tgccgccagc atccgggaca tcttcacgaa gaactagacc 360
aacgtttcca aaggggc 377

<210> 5846
<211> 314

<212> DNA
 <213> Triticum aestivum

 <223> Clone ID: LIB104-036-Q1-E1-E6

 <400> 5846

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 catggatcaa tggaagtttg catctaactg gcatgcagtc cgctcaggca ggtcaatggt 120
 tcagaaaggc actgttcttg ttgcagctc atcttgctat ataagcgtat tcctactcag 180
 aacaatcatc tgattccatc ttgactgcga ctacgctaaa ggatccaacc ttacatgccc 240
 gtgaatacaa cctcatatcg caactatagt gtaacaactg ttcaattcac aggactatcg 300
 ttttacaatc atct 314

<210> 5847
 <211> 81
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: LIB104-036-Q1-E1-F12

 <400> 5847

 tgcgacaccc tatagttagt catattagtc cagggatgtc gataagggca gtgttgtaat 60
 acctactctc tcgatgccgg t 81

<210> 5848
 <211> 459
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: LIB104-036-Q1-E1-F6

 <400> 5848

 ggtctagaac tcccgggtcg acgggtgtcc aaagggtggc acgagggaaa gatctacttc 60
 gcgccgacgt acaagtacaa gctcaactcc gacacctatg ccggcgagac gaccaaattc 120
 aagaggaaaa ggagaacacc ctcatggtgc gaccggatac tgtggcacgg caaggggata 180
 gagcagctgc agtacatcgg gggggagcac cggttctccg accaccggcc cgtctgcagc 240
 gtcttcgtgg tcgaggccga cgccaacaac gggagcagga tcaggaacgg ctactccacc 300
 ctggactcca gggttcattg cgagtcgccg ttgccgatac cgcagagaca cagcttctat 360

gacttttgac ctgttatagt gatcctcttt tgtcgatact tcttctatac gttacaagga 420
tcagaaatgt ctattgagac ggggggctga acgtttttc 459

<210> 5849
<211> 92
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-036-Q1-E1-F7

<400> 5849

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cagttcatct ctttatgcag cgtcaagcag gg 92

<210> 5850
<211> 215
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-036-Q1-E1-F8

<400> 5850

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gggctttggg caagccactt gggctggacc aagaaagatg agagacgaga gggtgctgcg 120
gccgagctag acatcgaagg agtgagttca gacatctggc gctgaaggag tgagggtccgt 180
gcgaggtga ggtcgtcggg gtgatcacgt cccac 215

<210> 5851
<211> 424
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-036-Q1-E1-G11

<400> 5851

cctaaagtga gtcgtattat gctctaaaag atgtgcgaga ggagttgaca attcatggcc 60
ccagcgagtc accaaccaat cccatcgggt ccaatgagta gcggagctag gcaggaatca 120
tgggggcagt caaaaaatgg aacaactaag agggtaaaaa ataatctttt ctttatctaa 180
tctccacaca gtaaaatttc ttcactgttt tgcctaaggc tgggggtcgg cccctcaga 240

catgcactag ccttcgccac tggttccaat atatgtgcga gaacaacagc acatcgga 300
 ttcttagtct acgccttggt caagcgattg cccctacttc cgcggatgtg gtgcacatat 360
 tttggaggaa acagtaaaat gcaacaaaaa aaattaaaaa ttaatatcaa cttcatttgt 420
 ggca 424

<210> 5852
 <211> 269
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-036-Q1-E1-G4
 <400> 5852

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 atatatctag atctatgtta ttacagtaga cacaatgtca tatatgacc acggtgattg 180
 tacttatact attcgtgcaa tatatatgta tatatacatt cgtgtaagcg tgcaaatatg 240
 taatgatagc tctattaaat tatgttctc 269

<210> 5853
 <211> 441
 <212> DNA
 <213> Triticum aestivum
 <223> unsure at all n locations
 <223> Clone ID: LIB104-036-Q1-E1-G8
 <400> 5853

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 cctcagtgcg ttttgcgagg cagtttcctt ggcacatctt gttgaagcag agatcatgtc 120
 cccttatcac gggattctca tcaatacggg cggttggaac ccaaccgtgc caatgattac 180
 gggacttggg ggaaaagcga gttttgccag gctggtgggg acacatagcc ttatccgccc 240
 atataagggg ataaggattc atccttttat ccacgccttc ttcctccttt gctcatccat 300
 cttcgcacac tcgagctcca gcgcccaagt ccgcatttcc cacctcaacc ttctccaacc 360
 atgtccggag tgggaggcan gtggatggtc tcctccgtca cgganggaaa catcaagaag 420

ctgaggagag ccggatacct g

441

<210> 5854
<211> 420
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-036-Q1-E1-H1

<400> 5854

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gcagttgagg tttctgatgc tgagcaggga aaggcagcta aggtttctga tgctgagcag 120
ggcagggcag ctggagatat cattttggag gaagatccag ttgaggggtgt tgttgagact 180
cgtggtagtg ctgctgcagg ccaggagaag tctcctgcag cagagccatc agttgatgtt 240
gatgctgggt ctccaactct tcctagtgtt ggagagccaa tggtttttgt tgtttcagat 300
tctccagctg ctccagctgc tgggtggtgtc cttcccgaca atgctgctat gtcaactgga 360
gatgatgatg aagagactga aagcgatatc tatgaagccc aaaaaaaaaac aaccaggggc 420

<210> 5855
<211> 245
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-036-Q1-E1-H11

<400> 5855

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acgtcgttgg gaagctcgtc tggctctgatg ggaccacta tgtgaggagc cccatcgtgg 120
taaatgccct ggattgagat tttcattttt gtggtgtgta gccaaggga aggaagtgtc 180
atgagtttag gaattttctt ttttagttta ctgagaatga gatgagttta taggttttag 240
ctcaa 245

<210> 5856
<211> 387
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-036-Q1-E1-H2

<400> 5856

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accccgtgga gatgtggaaa attgtaatca gcctggcatt tggtttggtt tggctccgtg 180
gtgacaaata atgggtggaa acgcaggata ttcccagctt gacgattccg tgtagttcgt 240
gaataattgc taccagattt tattcttttc gtgctgtatc tagtttggtg gttctccgtt 300
gatcatcttt tgatgtccat gcatcaatta attcataaac ttttggaana aaaaaaaga 360
aaactcaaaa aaaaaagcgg ccgctct 387

<210> 5857

<211> 435

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-036-Q1-E1-H5

<400> 5857

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aaagggatcc taggttgtga agcaaaacta aagggatgtg gataaaggga gggatgatag 120
aaagaaggaa gaggaataa ataagatata ggattccact atgtatggtc tatgaattac 180
atcataaaag gcaatgtgat aaagcatcaa tataataaaa ataatagaga attaaaaatt 240
ttaacttgaa acaagaacta caaatttaaa gcaataataa agagccgccc gggttaataa 300
aactgagaaa attaatcgg aaagaaattt tttggaagct ccgttgccggg attcagacct 360
aaccattcaa ggagaagcag tgggaacgac agaacctatg attccatagg attttattga 420
aaagaatcct aacac 435

<210> 5858

<211> 233

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-036-Q1-E1-H7

<400> 5858

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 tcccccttcc cccatttgtg atatctgttc tttgttgctt agagtatatt atgtccgaat 180
 tgtatttata cacactgtga caccgactat ttatataagg cagctgttgc atc 233

<210> 5859
 <211> 406
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-037-Q1-E1-A1
 <400> 5859

tcgtatgtcg atgcgactcc ctatagttag tcgtattaaa ccattccgag atatattgcc 60
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 tgatcattta gttgacatcg tatttgtggc aaagccacct tgataattct ttcatacatg 180
 tcactcttga ttcattgcat atcccggtag accgccggag gcatccacat agagtcatat 240
 tttgttctaa gtattgagtt gtaattcttt agttgtaagt aaatagaagt gtgatgatct 300
 tcgttattag agcattgtcc cagtgaggaa aggatgatgg agactatgat tccccacaa 360
 gttgggatga gacttcggac cttataaaag aacagagttc tccgtc 406

<210> 5860
 <211> 187
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-037-Q1-E1-A10
 <400> 5860

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 aatccgcacg tctctcaccg atcacggaat gagggtagaa acaacagcag gatcagcagc 120
 tcaattgggc atgtaccgta cgatacagtg aaatcacacc gtgtcccagt catgtcatgt 180
 cgactgt 187

<210> 5861
 <211> 417
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-037-Q1-E1-A11

<400> 5861

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gctaattttt tggctttaga ttttatgaac tatgcaagtt acgcatctat tcatgtgtca 120
gatatggaaa aatcaaggga agtaaaaatg aatgacatat acatatacaa catgtacacc 180
ttgtctcttt tgtaacgat atttcagatt aagcaacgcc gaggacggct ttattttcaa 240
gaaggggagg atgatgagga caggactacc ttggatatga ccaataatat tgcatatatg 300
catatttgtc aggtgatctt tagtgcaaac tattcaataa tctacttatg ttatccagaa 360
caciaatacg tcacacactt ttgtgttttg tacaattgca ggtgtatggg acatttg 417

<210> 5862

<211> 373

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-037-Q1-E1-A3

<400> 5862

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gggaacctaa gctacctaat cctcgtgtac tttcgacata cgttcgtcca gagtaagctc 120
tacgatgaaa gcttgaacct gcttgtgatg gagatgttat tactgtggtg acctgaaatc 180
ttgagtcaca gaggctttca agcattatgc acagccactg aagaaatact cggacacata 240
caccataat ccatcatgcg ggactttgcc tcagattcgt gaattacagg atgaatgatg 300
tgatgttcaa actgctggat atggcttact gaagacgtac cacgcaaca acgagtactg 360
tccgttttca gat 373

<210> 5863

<211> 383

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-037-Q1-E1-A5

<400> 5863

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 tttgttcgcg gagactgctg ttattagtct gttggccgag ttgtagagaa ctctctttgc 180
 tgctgctgct gttacttcct tctgatgttt tttcgttttg ttattatata gccggatgaa 240
 gaaaagatga tgcagtttta tctaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 300
 aaaaaaaaaa ttaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aagcggccgc tctaaaggat 360
 ccaagcttac ttacccttgc atg 383

<210> 5864
 <211> 338
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-037-Q1-E1-A8
 <400> 5864

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 atcacgcac tacccgagag gcatattcag gagccttctc atgacgcttg tgacggacgg 180
 ttccgtcaaa ttggacgtga attaaaagcc atgggtgtga cttgtgcatg tatgttacag 240
 catttggggc ccacgaatca acagctcctt taatttttgt catggtcttt ttgcgtggaa 300
 atttagatca gtggaacccc atcagattgg ctacacatg 338

<210> 5865
 <211> 400
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-037-Q1-E1-B11
 <400> 5865

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 gtcatgcact atcaattgaa atttccatgg acgtacttct gggggcctct tttcagagat 180
 tactgtcatc agagtagcca tatcacacgg caattgcctt ggcgacagct caagtattca 240
 tggcaattgg acagcttcag ctttgcaatg agtaggctcg gcaaaatgta cattggcaca 300

ttgcttatcg agctctggta ctgcacccac tgggcatcg tgccagctgc tgcctctgaa 360
 ctgtttggcg tgaagaattt cggagcagtg tacaacttcc 400

<210> 5866
 <211> 380
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-037-Q1-E1-B12
 <400> 5866

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 taaggagacc ttcttctcct ggtatcgtga agacttgttc ccctaatagga aaaagagttt 180
 caccgccaca taatgcactc agcatttcag caaaccgaaa aggagggcgg aagctgatag 240
 tgaaatcgat ggctccttt ccatcagtggt ttggggagac gagcgggtgga tctgcaatat 300
 gcagctccga cagcagaaca gctcttgctt taggtccatc gtaaaagctg ggctgggcag 360
 ccgattatcc gcgagcggag 380

<210> 5867
 <211> 360
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-037-Q1-E1-B3
 <400> 5867

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 actcttccgc aacggagacc gcaccttcac ttcacgggtc ttgaaaccgc cgcccgtaca 180
 tacagatcgc agatggacga cgttggtcac cgccggtaaa atatgttcac gatcgggttt 240
 cgtttatctt tctgtccac aaaagtacga actgtagtga caatctggcg tgtctgacaa 300
 aagctcggct ggtgtatatg aactttcaca atgtacaca tattgtcaga gtattacaa 360

<210> 5868
 <211> 360
 <212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-037-Q1-E1-B8

<400> 5868

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ccacctagca tggaagatac aaatagacct agttgaaaca tgagctgctc gagtatacaa  120
aacagcattt catttgaagg tttggagttt ggcacatata aatttaattg ggacggaagg  180
taaataccgc atataggaag gtatggtgga ctcatatgga acaactttga ggtttatgga  240
gtttggatgc acaagcagta ttcctgctta gtataggtga aggctagcaa aagactggga  300
agcgaccaac tgagagagcg acaatgctac gtcttgagct tgtgttggtt ttccccgaag  360
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<210> 5869

<211> 406

<212> DNA

<213> Triticum aestivum

<223> unsure at all n locations

<223> Clone ID: LIB104-037-Q1-E1-B9

<400> 5869

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agcttggaag atcagtataa gacataaagg ttaaattagt tactcctcgt acaacaatta  180
cagaatctag actacaacga aacagattca aaatccaacg atgcaataaa ttcactcaca  240
agagacaata tgctcccatc agccccgaag gcatgtacag aacatcagct ttctgcacag  300
catcggatnt gatcagctgg actcatagac tcagcacagc accagccggc gaagttcgta  360
gagcgtccga taagccactc cacaggatca gtaacagtcg atccaa                    406
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<210> 5870

<211> 393

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-037-Q1-E1-C1

<400> 5870

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accaggatct ggatactgcc aagagcagct cctcggttga gaagagctac tcagcttcct 120
gatggtcacg tgatcatcac tggcgcacag aggttcaggt gccctgaggt cttcttcgag 180
ccatccatga tgagcattga gtcttctgga atccatgata cgacctatac ctccatcacg 240
aagtgtgacg tggatatcag taaggacttg tatgagcaac attgtgctca atgggtggcac 300
aagcatgttc acaggtatcg ctgatcgtat gagtaatgat ataaccgccc ttgctccgaa 360
caacatgaag attaagttct cgctccacct gat 393

<210> 5871
<211> 386
<212> DNA
<213> Triticum aestivum
<223> Clone ID: LIB104-037-Q1-E1-C10
<400> 5871

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agattggatt ttggaaaact aactgttcag agttgtggga gagactccag agtgatgggg 180
ctccttcacc agcaccttcg agtgatccaa gttcacaagc agatttagcg cctgcgcctg 240
ctcgaggtgg tttgccagaa tatgatgttg gtcgcagcgc tgtttacatg tcgatagatg 300
ttacgtatcc aaacctgaga ccgcccctag atgagttggc tgagctgttg gctaaagcag 360
ctgagataga gtccagtcag gtccga 386

<210> 5872
<211> 435
<212> DNA
<213> Triticum aestivum
<223> Clone ID: LIB104-037-Q1-E1-C11
<400> 5872

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aactcggtag tgttttacta taagactacc acgtgggtcat gtttgtctgg gacagcgtgt 180
tcacatgttt gtagcaaaac cagctcatgt tttggagctt actatcgtag ttcagtcgcc 240

gagaatcgcg cagcgttgtc ccgtcgaatt gtgttgcaaa ctttcatttt tctgcctaga 300
ctcgatgagt ctggaatatc ctgacagcaa ccagatctga atctcaggca tatatgatgg 360
tttggaacat ttcccaagaa ctataatatc ggtccctcga ataccggtaa agtggatgtc 420
gtgggcaaca tcacc 435

<210> 5873
<211> 89
<212> DNA
<213> Triticum aestivum
<223> Clone ID: LIB104-037-Q1-E1-C12
<400> 5873

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ccatcgtggc tgtgccccag gttttcggc 89

<210> 5874
<211> 316
<212> DNA
<213> Triticum aestivum
<223> Clone ID: LIB104-037-Q1-E1-C7
<400> 5874

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acagcctacc tcggcggaat acgtccacaa catggccggg ctataagggt cgtctgcctc 120
gccagatct accgagtggg taccaccatc taccactggc tcgacatacc ctgggtcagg 180
cgctactacg acttcgggtt cgaccacttt ggcatgtctt ggcgacacagt cgggtgtgtca 240
ggcctacca gcctactcgc tggcacctcg ggaccgttcg ccacacgaga ctggattcta 300
ccggacctca ccatcc 316

<210> 5875
<211> 137
<212> DNA
<213> Triticum aestivum
<223> Clone ID: LIB104-037-Q1-E1-D12
<400> 5875

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 agagactgta aatggtg 137

<210> 5876
 <211> 222
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-037-Q1-E1-D2
 <400> 5876

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 gccaacgccca ggataaacag caggaagatc cataaggcca cgtcctgaac atgtgacagg 180
 cttgaagcaa cactgtgtga gcaattccac gccgtaggac ac 222

<210> 5877
 <211> 409
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-037-Q1-E1-D6
 <400> 5877

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 agcaggagga ttgtttacga agaaacaaca gaaaaaatc atattctgat acagaggagt 180
 tatataggaa tcgaaatagt cgttgatttt ctttgtgaag aaaaaaatg gatttcattg 240
 aagtaataaaa actactccaa ttcgaatagt agttgagaaa gaatcgcaat aaatgcaaag 300
 atggaacatc ttggatacgg tattgaagga gttgaaccag gatttccaaa tggataggat 360
 agggtatctt tatatgtgat agataatcca aatgcaaaaa tttgtcttc 409

<210> 5878
 <211> 207
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-037-Q1-E1-D9

<400> 5878

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tatgtcataa tgtaagcatc tgtgcatccg ctgtacagca tcagtctcac tagtcccaat 180
atgctcatat cgtcagtaac ggatctg 207

<210> 5879

<211> 421

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-037-Q1-E1-E5

<400> 5879

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tatgatagca agtcctcaaaa catgagctgg ttctgctact cacatgtgaa tacgttgtcc 120
cagacaaaca ttatcacatg gtagtcttac aataaaacac taccgagttc aggtggggaa 180
ccatcattaa tgacatcgaa gtctccacgc gtggaagtcc aaggagttca ccttagacag 240
actcctttat ctttgaacaa ctcaatcagt ggcttggtgt gctaggatat acatatggaa 300
tgaagatgat tactctaaca gaccacagaa ttcttcgcac gagcatgact gacttgggat 360
gactccaaag gaggtaaaac aagccttctc aaattcacga cggcaactta catcaaatgc 420
a 421

<210> 5880

<211> 411

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-037-Q1-E1-E6

<400> 5880

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gacataaatg ccaagctgga tgtgtatgaa tcttccaatt tactgtgtgt ttttatcgaa 120
atatatggta ctgatgctac tatttgtctc ttgataggca tacgggtgggt acgataatga 180

ccagagggca cagccgtatt cctatatact ctggaagacc aagcaatatt atcgggtctta 240
tattggtgag taagctgaca ttttcaagaa ttaactgcat tgattgagat cacatctcat 300
tagttagggt cattctgcta catatgtttt tacggcctcc atgttatgag ctctcactgg 360
cgaacatttt tggagttgca ctgttcagac cgggtgccta acaagacttt g 411

<210> 5881
<211> 240
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-037-Q1-E1-E8

<400> 5881

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cggcatcggg atcctgctcg tcgtcagtc tcatcatcat catctcgatc gtgctcacga 120
gtagctggag gaccaacaga aatcataacg agcggtagta ggaatagggt gtgatgatat 180
gatcctgggt tgcattgcatt cttgctgggt gttgttgatc gcttattgtg gaattttttg 240

<210> 5882
<211> 121
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-037-Q1-E1-F10

<400> 5882

tcgtaggaca ttacaacacc ctatagttag tcgtattagg tcgtcaattt gattgatgac 60
gggaagaacc ccgatgagtt cagcaggac gtgctcaaca gctgcatcgc caagaggcag 120
a 121

<210> 5883
<211> 439
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-037-Q1-E1-F6

<400> 5883

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tgacaaccac cgactgcatg tggcccaaac atgtatgtat ggaaggggtg tgtaatgttt 120
 taaataacaa attcatgact ttgatgtggc acttgcacaa caaaagggcc aatcctagac 180
 ggtgggttgac gacccatagt gtactggcag cccccctccc ccccaacaca cacaccgcac 240
 atccaccgcc tctatgagge atgttaaaat tttctgctat gaacatatgt gaccaaagga 300
 gtgtcgtgtt aaaatttgaa aaaaaaatca gagatcattc aaacactttt gtacattgat 360
 taatttccta gggatataat gtgcggaaat caaattagag ctacatgcac acgtgatagt 420
 gcaccaaagt ggtagaaa 439

<210> 5884
 <211> 411
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-037-Q1-E1-F8
 <400> 5884

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 ggcacgaccg acgctgcttt gggcggctgg agcaagaagg ccaaagggtg aagaagcact 120
 acggccgttg gatggacatc gtacggtcag tggagctaga atcgttcata ttgactaaag 180
 ttgacaaagg cccccgtccc agtcaactta gtaggcccac aagtcagcct cccaccatgg 240
 tgggtcccgga ctagcagggg aagtattcat ttttttgtgc gtaataagga ggcacttccg 300
 gtgggtccga gctgacagcg gggggaacgt ttttttttgc aaaatacgct ggcccgtccg 360
 gtgggtccga gcagtcaggg ggaaacattt ttttcgcgaa ataaagtggc c 411

<210> 5885
 <211> 349
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-037-Q1-E1-G3
 <400> 5885

accctatagt gagtcgtatt aaacaatgtc ggtgtcaaaa cgggcggatc ttgggtaggg 60
 ggtcccgaac tgtgcgtcta aggtcgatgg taacaggaga caggggacac gatatttacc 120
 taggttcagg ccctctctat ggaggttaata ccctacgtcc tgcttgattg atcttgatga 180

atatgagtat tacaagagtt gatctaccac gagatcgtaa tgactaaacc ctaaaagcct 240
 agtctggcta tgattataag gattcggcct atctacggac ctagacctcc ggtttatata 300
 gacatgggac ggatctaggg ttacacaaag tccgttacag ataaaggaa 349

<210> 5886
 <211> 126
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-037-Q1-E1-G4
 <400> 5886

ctccctatag tgagtcgtat taagcgcttt gctaaatctt gacggcagca ccataggatc 60
 caatcctacg tacgcatgca tgccacgtga taacgctgca atgctgtcac gctaaattca 120
 attctg 126

<210> 5887
 <211> 402
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-037-Q1-E1-H1
 <400> 5887

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 tgggcatggg tacgatgaaa ttaggcagaa tggcaaaatc agcagcatct actgtgaaca 120
 caaggcgaag agaaaaggga ttgcttcctc gtccggttcg agctggaatt gttggatata 180
 caaatgtcgg taaatcttcc ttgattaatc gcttgctaaa acgaagaatg tgtccagcag 240
 cacctagacc aggtgtcaca agagaactga agtggggttcg ttttgggaag gatctagagc 300
 tattagactc acctggaatt ttgccaatga gaattagtga tcaggcagct gcacttaagc 360
 ttgctatccg tgatgatatt ggagaaaggt catatgattt tg 402

<210> 5888
 <211> 430
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-037-Q1-E1-H11

<400> 5888

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cgtgacggac aatgcgccgc acgaaccagc acgccgcatg aaccagcaga cacttcgacc 120
tatgcccccc cttcaagatg tttatgaaaa ttaaacgagc cgaaggcgag caggagggtc 180
cctcgtgcct gaggcgccgt gtcacaccgt gacggacaat gcgccgcacg aaccagcacg 240
ccgcacgaac caacacgccg cacgaaccag cacacacttc gaccagcaca cacttcgacc 300
tatgcccccc ccccttgacg atgtgtatga aaattaaatg agccgacggc gagcaggacg 360
ttccctcacg ccggaggcgc ggtgtcacag cgtgacggaa aatgcgccgc acgagccagc 420
acgccgcagg 430

<210> 5889

<211> 439

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-037-Q1-E1-H5

<400> 5889

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gagctcgccg aaagctatgt cttctcccag ctcaacgcgc gcagcgagg accatgatcc 120
atccagcgac cacttcatgc accatcctct tgtgcaatct gtctgtggaa ctacatgtgg 180
tagaatatgt gccctgaatc gtcaacgggt acaattcacc attgatttgc aggctacgat 240
tgacatgaga ctattgttga tgcttctcga cgctcgcag tcatatgtaa ctgtctagag 300
taagttgttc ttccacgtac tagcgcaact ttaagcgtc agctttttat ttcattggcct 360
gttagaatgc caatgcacct taatctcacc tacacgcatg gatcaacgtc gaattgagtt 420
atacgaaact tggaaaatt 439

<210> 5890

<211> 329

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-037-Q1-E1-H9

<400> 5890

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ctacctgatc atacccaatt ggataaagtg tgtagagatc atgtccgtat accgtacgtg 120
ctactgaagt aaaagattga gtctgtgtct aagggtactt atataacaaa tcaagttatt 180
cctaatatct acatccctca tcatgacagg gtacggcata acccacaatt atgaagttac 240
ctagcacatg agcaactata catgacatca tcgcagtctc ttacaccgtg tgtgggcccc 300
ccctcgagag tgcactacat gatccatac 329

<210> 5891
<211> 214
<212> DNA
<213> Triticum aestivum
<223> unsure at all n locations
<223> Clone ID: LIB104-038-Q1-E1-A1

<400> 5891
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tctatcattt tgtaaacata ccagttgtct cggtgataaa agcataaatg tttcctcctt 120
tcagttagtg aatattctcc ttgggtcctg gtttagtatt ttcggagtac atgcaagtta 180
ctgtaacttg attgatagtg ttgttaagag atat 214

<210> 5892
<211> 441
<212> DNA
<213> Triticum aestivum
<223> Clone ID: LIB104-038-Q1-E1-A10

<400> 5892
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ggaaaatgaa gtttgacggg cgagcttgga gaggagaaac cttaagtagt gtggctcggg 120
cattccatcg aacaccttgt gtgcatagga ggtgagctag agcatcacca agccctctcc 180
ccctcggccca gaaaaaacag agcagtgtgc tctgtctttg cgtgaggggg tatatatagg 240
caccatcatt ggtcccgggt ggtggcatga accgggacca aaggcatccg ggaccaaag 300
gtccggacga accgggacca atggcccacg tggcccggcc ggcccctggg ctcacgaacc 360

gggccaaata gcctcattgg tcctggttct ggattgaact gggactaatg ggctgacctg 420
gcctggacaa tagccccctt t 441

<210> 5893
<211> 413
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-038-Q1-E1-A11

<400> 5893

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gagaggagaa accttaagta gtgtggctcg ggcattccat caaacacctt gtgtgcatag 120
gaggtgagct agagcatcac caagccctct cccctcggc cagaaaaaac agagcagtgt 180
gctctgctct tgcgtgaggg ggtatatata ggcaccatca ttggtcccgg ttggtggcat 240
gaaccgggac caaaggcatc cgggaccaa aggtccggac gaaacgggac caatggccca 300
cgtggcccgg tcggcccctg ggctcacgaa cggggccaaa tagcctcatt ggtcctggtt 360
ctggattgaa ctgggattaa tgggctgacc tggactggac aatatcccc ttt 413

<210> 5894
<211> 435
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-038-Q1-E1-A2

<400> 5894

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atgcatcaaa gcctcggtat tcagctcgca cagcttggga aggatgcttc tgcagcagga 120
gctgcacgca gaggtactac tcagcggaag acagttgagg tcgagtctgt tgcagctgca 180
gggaagcaac aagctagaga agtagtgaag aaatctttcc gtgccgagtt cctcgagaag 240
ctgcacaaag atttgatga cgatatcgat gtgagagcct tggcaaatgg atttatatct 300
gtcactctc tgaatgtgca cggccatgtc gagtctgaac tcgaagctcc agcgtcagac 360
tggctgtcag cagctgtgtc tgtatccgaa gaaaacgaag ctccagcgac ctaacagaca 420
ctcagaaatg tacac 435

<210> 5895
 <211> 465
 <212> DNA
 <213> Triticum aestivum

 <223> unsure at all n locations
 <223> Clone ID: LIB104-038-Q1-E1-A4

 <400> 5895

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gccgggcaac ttcttggtgg ccgcgctgga gctgtcaggc ccctgcacct cctcgatcat 120
catccggctg gacggaaacc tcctcggaac cggcgacctc accgcctaca ataagaactg 180
gatcgagggtg atgcgcgtgg acaacttcac catcaacggc cacggcacca tcgacggcca 240
tggccccctc gtgtgggaca agaaccagtg cagcaagccc tacgactgca agatcctctc 300
caacagcctg gtgctggact acgtgaacaa cgcgacgac cgtggcatca cgcttaagaa 360
cgccaagttc ttcaacctca acctcttcaa gtgcacgacg gtactggtgg aaaacgtgga 420
gatcactgcg ccggtgaaca gcccacaacac tgacggcatc cacat 465
  
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<210> 5896
 <211> 447
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: LIB104-038-Q1-E1-A6

 <400> 5896

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ttcgttgagg cattttgtca aatgacttct catgcagctc ctagcttttc agttaagcat 120
ctctgtctat tggaattcgc ccaatgatg tgcttggggt ttgttttgat tgatggacct 180
taaagctgaa gcattaatgc atgaacttgc taaatggatg gagcaacagg catagaagaa 240
atccacaacc aatttttctt ggctgcgcca tcttccgctg acagtaactc tatacaacag 300
cctgctaagg tacgtaagag tgatgataat gttacttaaa ggaggccaca acttgcacca 360
aatatatggg catgtgcaac ggcaacttat gtaaactggt tctaggtgat gctgatgaat 420
catgtaagga tggagcataa ctcacca 447
  
```

<210> 5897
 <211> 446
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-038-Q1-E1-A8

<400> 5897

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 tggactgtga ccaatacgac ggcgggtgca accgcgggtc ctttcacagg gcctacaatt 120
 ggattgtgga gaatggcggc cttaccacgg cagcggatta cccatacacg gcggtgaggg 180
 gcgcctgcaa ccgcgccaag tccgcccatac acaccgtcaa gatccttggc ggcggcgtga 240
 tcccgcccag gaacgagccc gaaatgcagg tcgccgtctc cgggcagccc atcggcgtgg 300
 ctatcgaggt cggcagcggc atgcagttct acaagagcgg cgtctactcg ggcccctgcg 360
 ggacaaatct tgctcacgcc gtcaccatcg tcggctacgg cgtcgatgcc cctactgggg 420
 ccaaatactg gctcgtcaag aactca 446

<210> 5898
 <211> 301
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-038-Q1-E1-B11

<400> 5898

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 tatgctagag ataacagttg gaggctttca gtgatagttt gtcttgcaat ggggacataa 180
 tatttctagt gagtaaaaga cggacgtggg agagaggaat cagcgcagag gagatcggcg 240
 agtaaagagg cagtagaagt aaagaaaaaa agccggccgc tccacaggtt ccaaccttag 300
 g 301

<210> 5899
 <211> 412
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-038-Q1-E1-B2

<400> 5899

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aagtatgacg gtccagagtc catccggagt ggagtgaatg cagccatcaa ggataagttc 120
cccgacatca cgaacgtggt gttcaccag tgatctacaa gtagcctggc cggcttgatg 180
ccatcccagt gactaagtg gcgacatgta cgaaatgcag cgagattctg tatcatctac 240
acacgagttt cgatgtatcg tttgggtata caaagttgca gcacacacaa aactacaat 300
gggaaatgac atggaataat tcttgccat tggaagccgc ctccagaact caccatccta 360
cgtggggccgc gtaaggttct tcaagaagga actcctcaaa gaacgggact tt 412

<210> 5900

<211> 441

<212> DNA

<213> Triticum aestivum

<223> unsure at all n locations

<223> Clone ID: LIB104-038-Q1-E1-B4

<400> 5900

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gaagaccgga aggaaccctt taccggcaaa aggtgtgtgg caatttggtc caciaagtgg 120
atgaggtgat cctggctctc atcacaatcg gctgcttgc gctccaacct gctcccctga 180
cggcctatcg tatctctgc tttctacagc aatgtcgctg atgctcagag catctttgtg 240
gtggacgcct gccgcttttg aaggctccatg aactcctgca cataatgaag gagcatggga 300
ctcctctcct ccttgagctc acggagctcc acgtccttgg ccctatgctc cgcaccttg 360
gcctgcagct cctgtgtctg gcgcttcacc tcaaattccg tgatctgatg tgccgcatg 420
gcactaggta gaagcaatgg g 441

<210> 5901

<211> 449

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-038-Q1-E1-B8

<400> 5901

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 actgccatct agcaacgaga agctctggaa tcatggcgtg ttgagacgct aaaagatgca 180
 aaaagtgcatt ctactcggaa ttcattcaaat ttgggcctct ccagtggagga agcacgattg 240
 ttaaagcgag ccctggagtt caactggcat gcgctattgg aggatattgg tctttggatt 300
 tcaccagaag tcccacacac cgagcatgat gacaaacctg agaatgaacc agaagaagaa 360
 gaaataatag ctggtccacc tttgcatcca caatgcaaca ctgagctaca tgccgattat 420
 ggtggtgctg ctgtgagatg gggattaac 449

<210> 5902
 <211> 384
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-038-Q1-E1-C10
 <400> 5902

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 aagctcttag atgatgaaaa gaaacccgat atcacgaaac gaccacacac tcctattgga 120
 gatgaggtgg aatgcaagaa gccaaagata gcagaaggct caaggtgcca aggagaagaa 180
 cctgaggctg gagggataaa gaattcctcc tgggtctgat gacaggggaa tgcagtaaac 240
 accagaagca tcaaaactat gatctggaac agtatcctga ataaactatt ttctggatta 300
 tgaatgaatt ctgaagcatg gggctataag tgaattatgt aacatggatt tgtaactatg 360
 gtggatgta agttaacgtt ctat 384

<210> 5903
 <211> 419
 <212> DNA
 <213> Triticum aestivum
 <223> unsure at all n locations
 <223> Clone ID: LIB104-038-Q1-E1-C3
 <400> 5903

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aggtgatgga tgcgatgctg caagaactgt ccgcgggcggc tgcggcaggg acgaggaggc 180
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 ccgagcggga ctacatgatg cccaggaagg gctaccccggt gtgggacctc atcgccggag 300
 accggcgggc cgtccgcgca gacgtgcgcg ggtgggcccga cttcaaggac ctgnatacgg 360
 tgctgcttga catcatacac gaatgcgccg cggccgccat gatggaacaa gacggcggc 419

<210> 5904
 <211> 464
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-038-Q1-E1-C4
 <400> 5904

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 actttacttg gggatatatt tttattcgcc acatgatatg tgttttgctt ggagcgcat 180
 tttattttgt tagtttttgc ttgatgttat ttagattaat gttttgcatc attaggttca 240
 ataaaaaagt caaggataga ctttgccatg cttattttgc tagtatacat gttggttggt 300
 tgaaaacaga aagtttaccg ctgttgcaa aattccctag aaaagttaga gaatggtcta 360
 acattggata tttttgcata ttaagatgtg ataaatttac tacagtgaga attttagttc 420
 ataatttttg gagttgggta tgtaagatga atcttgcatt cctt 464

<210> 5905
 <211> 202
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-038-Q1-E1-C5
 <400> 5905

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 aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa taaaaaaaaa aaaaaaaaaa aaaaaaaaaa 120
 agcgcccgcc ctaaagggtc caagcttact tacgcttgca tgcaacttca tacctcttca 180
 atagtgtcac ctaatttcaa tt 202

<210> 5906
 <211> 450
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: LIB104-038-Q1-E1-C6

 <400> 5906

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tatccaaaca ttaggatggg atcatgatat ttgcaattcg cgtaaggaaa ggtcattgat   180
ccatcagaca tctagattct attgaatttg agcatgtcta tgttattatt cgacataatt   240
gatccacata gttagtattt tgaactccag acaatgcata gctttagcaa tggaatataa   300
acgtgagtat aattcatgtt gtgtgtgtaa agcacattat acatacgaaa gttacacaat   360
gaacattata aatagctagc taggaactag catacatttg aattcaactt aagggtggtt   420
aaaaaattcg aattcaacat gaagtccatt                                     450
  
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<210> 5907
 <211> 416
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: LIB104-038-Q1-E1-C8

 <400> 5907

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ttcgtgcacg caatcagttg aaatcctcca tccaactcca ccttgatggc tccactgctg   180
ttgttgagga tattggacgc cagcaactca tctatggccg tagaattccc attcctgagc   240
tttttgctag aatagatata gttgatccca gcactattag gcgtgttgca aaccgcttca   300
tctttgacca ggatattgcc atcgtgcca tgggaccaat tcagtctctt ccagactaca   360
actggttcag acgcaggacc tacatgctcc gttactagat gattcgacca gcggtg       416
  
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<210> 5908
 <211> 431

<212> DNA
 <213> *Triticum aestivum*
 <223> unsure at all n locations
 <223> Clone ID: LIB104-038-Q1-E1-D1
 <400> 5908

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agattgctgg tatgtttgcg ttgtttgcat atgttcgctt atttaatgat tctatttgag 120
gataggagta ttaaataatgc agaggcattt agtattcaat gttgaataat aattttgggtg 180
atttggtaca gtagaatatg ataaggtttt gcattggttt atactaacct atctcacgag 240
ttcttggtga gtttggtgtg aatgaagttt ttgataaaaa gaaagaccat gatatgagag 300
gaattaagga gacgcaaaag ttcaagcttg gggatgccca aggcacccca agatattatt 360
tcaagaagtc tcaagcatct aagattgggg atgccccggt aggcacnca cctttcttct 420
tcaacaacta t 431
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<210> 5909
 <211> 439
 <212> DNA
 <213> *Triticum aestivum*
 <223> Clone ID: LIB104-038-Q1-E1-D11
 <400> 5909

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gaaagcttgt tactttatca gatcaagata tattggagat ggttttcttc ccagtcgtta 120
atgaggcatg cagggtcatg gatgaaaatg tggatgatcag ggctgctgat cttgatattg 180
catctgtcct tgggatgggc tttcccaagt acaggggtgg cctcatcttc tgggctgata 240
cggttggagc atcctatata cattcaaagc ttagcaagtg ggctgaaatt tacggtgact 300
tcttcaaacc atcatcatatc ttggaggaga gagcgaaaag cggccgacca ctgggcgcgc 360
cgaagatggc tcagcaagct ccgacgaggt cacgcatgtg aggttcagca tatggcacgg 420
tttttgcttg aacagcatc 439
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<210> 5910
 <211> 462
 <212> DNA

<213> Triticum aestivum

<223> unsure at all n locations

<223> Clone ID: LIB104-038-Q1-E1-D2

<400> 5910

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cagtctctcc tctggcaaaa cataagatta nagcaacacg tgaagtacag aggtactcat  120
caagacttac atcagaacta gctacatatg catcgggtatc aacaaggggg gtggtggagt  180
ttaactgcag caagccagct ttgactcagt ggctaacctg aactacgact gcaagcaact  240
cttttgaggt ggcgcacacg agtccacata ttcaccattc aatacaacac tatggaaccg  300
ctcccgctctc cctacgagaa ggccatccat agcactcaca cttatcttgc gagttttaga  360
ctatccactt tcacttgtct atgaactatg caaggggtcc aagtttcaca tccgaagaat  420
ccggctattc gaatagataa tgataaccct gcacgggtgt ac                               462
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<210> 5911

<211> 439

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-038-Q1-E1-D5

<400> 5911

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ttatgccatc aaatctatcg tagacacata gaaagatcaa agaaatgtga gagaagaaca  120
tgaacgacat gagaacacat gggaatgtga gacatccggg gtagtcgtgg aacgagttgt  180
cattctggca cttgacggca ccaaactact agatatcgag agagcaagga tactgtggct  240
tcatttattt tagctgatcg tatattcgca ttcattctgt ttgtcttttt gcaatccata  300
gctcgagagt tcgaaactaa attctagggc acaagaccct attcttcctc cttttatggg  360
tgggcacgaa taattttctaa ttctagcaca tcacaatcat aatcttctag catattcatt  420
gttggcattg tgtcatccg                               439
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<210> 5912

<211> 445

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-038-Q1-E1-D6

<400> 5912

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ttcatcctga ctacaatacc aaggagtgtg gtggcatgtg tactttggat cctcataggt 120
tgatcccctc caccaagtat gtccacatgc atgtgcccaa cgatggaaac ttcccaggca 180
cacttccaac ccagccaggg gtattttcat ccaaaactcc aaccgtgcac tacattgtgg 240
aactttgcta gaaaaataag gcgcactaca tagaggaatg gagggaataa ggtaacatgt 300
gtttagacg acattaagtc ttggattatg tgttaagtct tcgaaaaata ttcttctat 360
gcgccatggg ttctcaata tggcaacaca tacctgtac ctcgcgtaga gctgatgtca 420
cgcccgata attaagctac agtag 445

<210> 5913

<211> 441

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-038-Q1-E1-D7

<400> 5913

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aaccagagt acaacacaac acttgaatta attctgtctg aatcttcagt taactagaaa 120
ttctagccac taaatcaagc tcacgtaagc gaccagctag ccctacgcaa cgctatcttc 180
tccatcgttg tgtttagttc gtgcctgcgt tttagctgat ggatctttca cgttttgatg 240
aagctgctgg acgaccgtg cgcccgctg aacaggcggc gcggccccgg cgtcgtgaca 300
gccgcgtacg atttctctc cctgcccatg gatttcaggt gattcatttc atgctcgctc 360
ttctctcacg gtttgacagg gtgatttctt gctgcattt tttcttggtc cgtaccgaa 420
cagaatagtc gcactatcat c 441

<210> 5914

<211> 440

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-038-Q1-E1-D8

<400> 5914

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gggcggccgg acgccatcat gacctgacg gtgaagcgcg acaacatctg cagcttcac 120
tcggagacca accccgggca cgtgcggctg tgggagacca aggacggcca gctgacgatg 180
gtggcgacg acctgaagcc gcgggcggtg ctgacgtgcc cggagaagaa gatgatccag 240
caggtggtgt tcgccagcta cgggaacccg ctggggatct gcggcaacta cacgtttggc 300
aactgccaca cgccaaggc caaggagatt gtggagaagg cgtgcgtggg gaagaggagc 360
tgcgtgctgg ccgtgtcgca cgaggtgtgc ggcggggacc tcaactgcc gggcaccacg 420
gccacgctgg ccgtgcaggc 440

<210> 5915

<211> 414

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-038-Q1-E1-E1

<400> 5915

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gcatgcccac cacgtcaggc ccggtggtcg ccgaccttc ttcacccgag ccggaccacg 120
atgacgcctt tccttcaccc gagccggacc cagatgacgc ccttccttca tccgagccgg 180
accagatga tgcgggtccg gcgtcgctag aggcgcggga acatcaggcg atggggccac 240
gtacaccgtt atcgagatc cacgtgctc ctccggcgtc tgcgtgacaa gaacacctca 300
gcgtacggcc gtgacagtca gcattggccg accaatcgat atgtaagcg gatcaccagg 360
tgcggaggga ttagcgcatg gccgcgtgct aatgggtgta cacgtattat ttat 414

<210> 5916

<211> 329

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-038-Q1-E1-E1

<400> 5916

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gaaaagggca cgctcgtaaat ctgcgaggtt gtaatgtccc tcccgagcta acacattcat 120
gacatacatg gattgcacga aacaggggaat ttgactagat gctgattatg tagcaaaacg 180
atcacatctg cgtgtggaag taactgaaac tattgcatag aaaaccatgt ctcaactcgg 240
gtcatgggac ggtagcgcta tacgatccac gcaaaagttg acgaccagcc aatttacaac 300
accgactaaa gtgtaaggga aaggcattc 329

<210> 5917
<211> 150
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-038-Q1-E1-E7

<400> 5917

ttactactcc ctatagttag tcgtattaaa tctgcagtgt ctctgacggc ccaggtagca 60
tttcttcggg acatatagac gtcctcgtag taagctttca aagtatgggg aactggcag 120
cagatagtag gtaggaaaga ttgaagtacc 150

<210> 5918
<211> 441
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-038-Q1-E1-F10

<400> 5918

accggtccag cattcccggg tcgacggggc tctgtgagga taatgaccca atggacgtcc 60
ttgtcctgat gcaggaacaa gttgttcctg gttgcttctt gcgtgcccggt gctattgggc 120
ttatgcctat gattgaccag ggtgagaaag atgacaagat catagctgtg tgtgctgatg 180
atcctgagta ccgtcacttc agagacatca gtgaacttcc cccgcatcgc cttcaggaga 240
tccgtcgctt ctttgaagac tacaagaaga atgagaacaa ggaggttgca gtgaatgatt 300
tcctcccagc agaagatgcc atcaacgcaa tcaagtactc gatggacctc tacggttcgt 360
acatcatgga gggcttaagg aagtgatctc cagttgggtg actgcagatg ctacgctatc 420
cgccctacgg cttatcaata g 441

<210> 5919
 <211> 462
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-038-Q1-E1-F12

<400> 5919

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ctcagcattc attcattcac tcaccgtggt atcacgaagc atcataatac gtcacgcgca 120
atgatggagc tggctgcaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 180
aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 240
aaaaaaaaaa acaaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaagggg gcgccttaaa 300
ggataaaagt ttaacaagcg ggaaatgaaa tcaaaaaact cttttaaggg ggccccaaaa 360
ttcaattaaa ggggcctttt tttaaaacag tagtatgggg aaaacccggg ggttacccaa 420
tttaaccccc ttggaaaaaa aaccctttt ccaaaggggg gg 462
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<210> 5920
 <211> 460
 <212> DNA
 <213> Triticum aestivum

<223> unsure at all n locations
 <223> Clone ID: LIB104-038-Q1-E1-F2

<400> 5920

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gctcgccgga tgcggttttg gctcaagctg cctccgcttg ttggctgcct tgccatccat 120
ctcaaccggc ggtgacggcg tgtacacatg tgctggtgtg tgttgtgtgc tgagtgtgcg 180
cgagtgcgtc cttctgtgca tgccactgcg cagtgtgtaa ttgtgtgoga gtgcatcctt 240
cacgcggaag aagtgtgtcc tcaatgcgcc ctcaatttac taacgtgcac ggtgatattc 300
actacgcaac cttctccttg tagacgttgt tgggcctcca agtgcaaaag tttgtaagac 360
agtagcaaat ttccctcaag tggatgacct aaggtttatc aatccgtggg aagtgtanga 420
ataagatggg ctatctcaaa caaccctgca accaaataac 460
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<210> 5921

<211> 462
 <212> DNA
 <213> Triticum aestivum

<223> unsure at all n locations
 <223> Clone ID: LIB104-038-Q1-E1-F3

<400> 5921

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 aatctcatgt aggcacatc atacgtattc aagccagtcc ggaagggtcga tcccaatggg 120
 ggagaagggg tctaccggaa tggccgcact gctgtggatg ttgtgcaaaa tgatgggtgga 180
 tccggtcgga gatatgcaag ccaatcttca ttggcacoga cccagaccta tatataagac 240
 ggcgggcagc agagaaatta cgggatggaa atggaataac taagtactac ctgatcanac 300
 tccattactg acctgctcat cggacaatat ccgactacct ctcaacgtcg gcaactctag 360
 cggagtcaat gtgcaaccat ggccaaggag cgggtggactg ttcgaaggat tgtcccatag 420
 aagaaccttc tctcagagga cgtatggaag accaacaagc at 462

<210> 5922
 <211> 442
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-038-Q1-E1-F5

<400> 5922

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 caatttttct gatagactag gagctatatc ttgcgaaac ataaaccgcc gcaaagtaag 120
 ctttcaagaa atggggacag tggcaccaaa tagtacttgg aaaacattga ggtaccagga 180
 tcagttcgtg cattcaccag caaggaaaag atattatcca taccaccccg agcattacta 240
 cagtccccac acaccagcta tgaggagtcc cctggcgcca agtaaaacgc ctttcacatc 300
 gacaaccgcg aggcgcaaga tgatcttctg gaccgaggca gaggaggtgg ctctgagggg 360
 ggcagtggcg aagtttgccc cgaatgggga ggccgcgaag gagaagaggt ccatctcgtg 420
 ggtgcgcata cacgagtact gc 442

<210> 5923
 <211> 438

<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-038-Q1-E1-F6

<400> 5923

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aaaactagca aaaaatagca actggcactt ggcactgggt ccatagggtta gtcccaaaaa 120
atgatataaa gttgctataa aatgattgta aaacatccaa gaatgataaa ataacaggat 180
gaatacttca tatattatag atacgttgga gacatatcag catccccaaag cttaatcct 240
actcgtcctc gagtaggtaa atgataaaag aaataattta tgaagtgcga ttgctagcaa 300
agtgcataag tttgatcaat gataatttca attacttttc ctagcatcat aacaacaatt 360
ctttcttatg aaagtctca tggttatagta gcaaccaatt cacatgtaa ggttcaaaca 420
atgaattctc ttgaaact 438

<210> 5924
<211> 426
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-038-Q1-E1-F7

<400> 5924

taccggtcta gaattcccgg gtcgacgggg aatttcaagt ttcccctaga ttaaatttat 60
tttcttacca attgtccaag aaaaagctac aaaaagttag acctattcat cttttttgtc 120
caagccagtc tgagcctttg caattttctt ttcattgttt gcattattga attatcggtt 180
gcatcgtcgt gtcgagttgc tggctctagt gtctagttcg tttagagttt cgagttctgt 240
tcacattagt cacatgcgcg ctgcatcgtt atcctttccg ctgtccacca ccccatccat 300
caatttccac cacgtgctac ccatagttca ttgtcacaat catagttgag gtcgttcaca 360
tcttcgcttg atccaatctg catcttatct agtttgtctt ggaaagaggg agagaaaaaa 420
agacag 426

<210> 5925
<211> 270
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-038-Q1-E1-F8

<400> 5925

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gtgctatagg aagttataca tatgcatcat ttttgtccag accaatctga gccattgcaa 120
gtttcttttc attgtatgca tgacagaatt atcgggttgca tcgtcatgtc ctgttgctgc 180
tcttatgata tagctcgatt acaagttcct aattctgttc agactactca tatgttacag 240
cagcatcgtg atcctttatg atgtgcaata 270

<210> 5926

<211> 380

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-038-Q1-E1-G10

<400> 5926

accggtccag aattcccggg tcgacgggtg ggataagaat gtcgaaaggg aataccggta 60
tttactacc atgactatac ccgacgcca gagagctacc gtgaacgtca ttgcaaaaat 120
gagccatggg tacacgctaa gcatgtgaca caatgctttt tcataaccga cccaagcaat 180
cccagccgtg ttgtcgtgag gagaggcaaa aggaacatca ttggaatgga tggagtctcc 240
aacgaggagg actacgacca gtacggcaac cctatgaggg aagatgacga tgacgatgaa 300
gtatacgtca aaagaagaat cagtactaca ttacctaaga aagatcatac tccatggaaa 360
aggaaaagcc acaatgaagg 380

<210> 5927

<211> 409

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-038-Q1-E1-G11

<400> 5927

cgggtccagaa ttcccgggtc gacagggatc atcaactttc ctttttacac tttttccttt 60
ggcaagcact ttgtgttgga gtgataacct gcaagtatac gggatcgcaa cagttttcga 120
aaagtaagag tgtcgaacct aacgaggagc taaaggtaga ataaatattc cctcaagttc 180

tatcgaccac cgatacaact ctacgcacgc ttgacgttcg ctttacctag aacaagtatg 240
aaactagaag tactttgtag gtgtgatagg acagatttgc aagataataa agagcacgta 300
aacataaact aggggctgtt tagataaaga agcaataaat tacatattag tagagagctt 360
tttgttacga, gaaaagttat ttgtccaagg caatcgataa ctagaccgg 409

<210> 5928
<211> 428
<212> DNA
<213> Triticum aestivum
<223> Clone ID: LIB104-038-Q1-E1-G12
<400> 5928

ttcccggttc gacggggcta ttggtcagct tgcaaggctc ctgtgggaag ctgagaagtc 60
ggggcactac cagtacttcc tctgtgtcac tggagaccac tctactcctg ttgagtacgg 120
agaccacagc tttgaacctg tcccgtttgc aatatgccgt ctgagagatt tctgtgggagc 180
gattggggag ggcaatgtga tgaatacccc ccttgacgat ttcccgctgc ctttggttaa 240
atccggagaa gatttaactg atgattcaga accagcggaa cacaagcctg gggagcgtaa 300
agcttttagc ggcgatacag tgtgtgaata caccgagatt gctgctgcaa ggggctgcct 360
tgggcggttc cctggaagtg agatgatggg catcatcaag aagttcatga aagcaaagaa 420
cgattaac 428

<210> 5929
<211> 444
<212> DNA
<213> Triticum aestivum
<223> Clone ID: LIB104-038-Q1-E1-G3
<400> 5929

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gctaattctc gtctgacaaa gtctcgtcta ctactacact acttgattaa tcaaacaaaa 120
aatataaaaa aatcaatacg aattaccgtg taaaatccaa cggatatagga gttagatgag 180
acatagttat ttctcgagct agactagagc tagacacacc cctttactgt atatattctt 240
tgggtgacgt tttgtttttg aagtctgatc ttactcagc tcaactattg gcactctgggt 300

gtgggccggt ttagtcattt ctctgccag tgtcaattta ctgttacctt taagcccggt 360
 cccgtgtgat gaatggtagt gtatcctgga acctctctgt tgttcacatg catttttctt 420
 gagatataaa tattgataaa cttt 444

<210> 5930
 <211> 343
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-038-Q1-E1-G5
 <400> 5930

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 gggcacttgg ttctaagacg cgtcctccga attgatcaat actactggcg agtggctgtt 120
 gtcgttgttg ttgtaacctg taagtccacc attatgaagc ttctgcttgt tttacgtgtc 180
 tgccttgtct atatgtgtaa ggctacaagg aacgaaatca atgtacatat gttacccta 240
 tgttaaataa agcagggttt gccactctaa aaaaaataaa aaatataaaa aaaaaaaaaa 300
 aaaaaaaaaa aaataaaaat caatattcaa aaaaaacta aaa 343

<210> 5931
 <211> 448
 <212> DNA
 <213> Triticum aestivum
 <223> unsure at all n locations
 <223> Clone ID: LIB104-038-Q1-E1-G6
 <400> 5931

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 ctgatatcta tgctaattgct ggtggtgtga tcgttagcta ttttgagtgg gttcagaaca 120
 ttcaaggatt catgtgggaa gaagaaaagg tgaacatgga gctccataag tacatgaaca 180
 gcgcgttcca gaacatcaag gccatgtgca agtctcaaga ttgcaacctt aggatgggag 240
 cattcacctt gggagtgaac cgggttgcgc gcgccaccat cttgaggggc tgggaggcat 300
 gaggaattcc agattcctta tcgaataatc catgccccgac accgtggtgg atgacagttc 360
 ttatatccac catcattgat ttggtaaatt catcataagt tgccggcatg ccaggagtcc 420

aattgaaata attttcgggtg tacatgac

448

<210> 5932
<211> 445
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-038-Q1-E1-G7

<400> 5932

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gatgaaacta tcgatttcta ttagtggatt aagccatgga gaagttatat tatagtagct 120
acaatgcaaa catcaaatat gaattgggtt gcaacagtac ttagagtagc gatttgcttc 180
attgtactaa tgatcttacc aaactttcta ttaagttttg tgtgattgat gttttcaagt 240
tttcggagag atcacgatgg atgaaggaat aaggagtggc aagagcctaa gattggggat 300
gcccgaggca caacaagtaa atattcaagg actcccaagc aaccaagctt ggggatgccc 360
cggaaggcat tccctctttc ttctaacgat catcggtaat ttcacttgga gctatatttt 420
attcgtcaca tgatatgcgt aaatc 445

<210> 5933
<211> 429
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-038-Q1-E1-H1

<400> 5933

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gaaggacaag ctctgtacac acaggtatac tgtcatcgaa agaaagacag caaacacgta 120
catatgacgt ctcaagcccc acggacaagc tctgtacggg cgaacctgag cgaaagatca 180
gttatactgg agatggatca tctcgggtccc agaacccttg ctgacaattg tctcagcaca 240
ccgatcgatg ttcttgccgt ctgtgactta tactgtactc gttgtgcccg tctgtttctg 300
tatcctgcgc aagtataatg cgattttgga tggctcctta ttatacatgt gcaaaatatg 360
gcataacttg cgtaacagg tgcacacac cagtcatagt tggtctttct ttgttgtgtg 420
ctcagctca 429

<210> 5934
 <211> 439
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-038-Q1-E1-H10

<400> 5934

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 aggccaaagga ggccgagcgc agggaggccg agggagcgaa ggccgaggag gaggagggcg 120
 gggccgcctg ggccaagaac aagcacgtgt atcagttctg atcgatcgcc gccgggcgcc 180
 gcgcccggcc gtgcatctcg cggcagatgg tgttctgaac ggaaaaagtt cgcgagagat 240
 gatggtgtgc atgtatccac cgctcaccgt cacttgaga ttcgtgctac gttttcttgt 300
 tttgtcaaaa gcttgtcttg tttcagagtg ttgcatgatg tttctctttt taaaaattat 360
 cgtgatgttt cgatgtgtat atcagtaaaa taagagagta ctgagttcaa ataaaaatta 420
 aaattagaga gtactcgac 439

<210> 5935
 <211> 446
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-038-Q1-E1-H7

<400> 5935

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 cccaatcctg gtcttcttcg ccggcgggtga ccatggcccc gttcggccac tgctcctgca 120
 gcactggaag ggcaaggaca ccgacgtgca ggtgagcgag tacctgcccc ggggtgtgtc 180
 gtacatcaac gtgatgcggc ggagcaagtt ctgcctgtgc ccagcgggc acgaggtggc 240
 cagccccagg gtggtggtgg aggccatcta cctcgagtgc gtgccggtgg tcattggcga 300
 cgactacgtg ctgcccttca gcgacgtgct caactggccc gccttctcgg tcggggtcgc 360
 catggcggac atacccaacc tcaagaccat cctcgccgcc atgtcgccgc ggcagtacat 420
 acggatgcag cgccgggtga ggaccg 446

<210> 5936

<211> 441
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-038-Q1-E1-H9
 <400> 5936

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 acaagtgtta atttcactaa gtctgaaatc tgtttgcaa atgcattttt tccatgcttg 180
 tttgaacctg ttaatggatg aattggccgt agctcagtgc tagacttttg ttaagcatca 240
 tgaatggatt cttgccatgt attttggtgc catgtttggg tgttgtagca tgttcatctt 300
 gttgcattta gatggctact tgctgtaa atcgcagaacgt ggtcatattg gaatcgcttg 360
 ccatttcgaa accgtaactc cgattccggc attctttata tcgttttcaa gcgatttcac 420
 ctcatatttc cagtgggtaca c 441

<210> 5937
 <211> 429
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-039-Q1-E1-B6
 <400> 5937

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 atagaaacaa gtgcttcgaa ttgcgatccg catccgccga cacgatgttt ctacagagga 120
 cggagtacga ccgtaggggtc aacaccttct ccccgagggg gcggctgttc caggctcgagt 180
 acgccattga ggccatcaag ttggggtcca ctgcaatcgg cttgatgact aaggatgggtg 240
 ttgtactggc tgttgagaaa cgtgtcacct caccgctgct ggaaccaagc agtgtggaga 300
 aaatcatgga aattgatgag catgtcggct gtgccatgag tggccttatt gctgacgcca 360
 gaacactggg tgagcatgct cgtgttgaga ctcagaatca taggttctca tatggggagc 420
 caatgacag 429

<210> 5938
 <211> 370
 <212> DNA

<400> 5940

gggccagaat tccccgggtcg acgggggacgt ttgagatttt gagttcatga atttttccgt 60
ttcctaaggt gtttcgggcta cttagggacg agtctccatc atcttggttt ctacatcaag 120
aacaccgcta ttcattcatcg tcggacggta acctccatat catcttggtta tcgtggtaac 180
cctccattgt atattcccct tgccattgca ttgttaaccc ctageccatt ttgcgttact 240
tgcctatcga gactagccat ttgagtattg ccggcaacgt tacttggtgca cattactgat 300
catacttccc atagcataca taccatatca tcgtgggtgca tatattggta tcatatcttg 360
tgtcacaagt ttgttcccgc atatacacia ttgctatctt ggtttggtgca ttgtgcaaag 420
ttggccatac acaataa 437

<210> 5941

<211> 450

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-039-Q1-E1-D6

<400> 5941

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acaattccta gggtatggga ctggatctcc atttccaaga ttcttagctg ataagtatat 120
tgtgcggaaa aatctctact gaatgacaga tccaagcaat ctggatacgc catgggacaa 180
agttgaagct ttgtacatca cttctctacc tgtttattaa tgtgtcttca tgtttggcag 240
tgatctgggt ttccatgtac ttgatagatg cattccttat ctttatgtgt tccatctacg 300
tagatgtgtt tctgcccata aatgtattta tgagcttgct ccgtttttac tgctttccta 360
cgtcaatttg aaaagtaccc ttatttcacc taataagggc tatacatgca tttagacgag 420
tgcacatttt ctataaacat aagcattgtc 450

<210> 5942

<211> 455

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-039-Q1-E1-D8

<400> 5942

ggtccaggat tccccgggtcg acgggggagg atgacgttgg gttgctgttc agatacatta 60
 cattgcttca gacctctgga actccgaagt ggatttttga tgagcttcta gccatctgcg 120
 agacgggatt ccactatcga gacaagagcc ctctagcaa ttatgttgtc aatatttcgt 180
 caaacatgca gatttttcca ccagaagatt ggctgatcgc gtcgtctgta ccatcaaagt 240
 tttcaccaga tgctattcag aagggtgctaa atgaattgac tacagagaat gttagaatat 300
 tctgggagtc aaaattatth gaagggcata cagactttac agaaccttgg tatggtacgt 360
 catattgtgt tgaagcagtg cctccttcca ttatgcagaa atgggtagaa aatgctccca 420
 acgaagattt acacctgcca aaacctaata tcttc 455

<210> 5943
 <211> 411
 <212> DNA
 <213> Triticum aestivum

 <223> unsure at all n locations
 <223> Clone ID: LIB104-039-Q1-E1-E1

 <400> 5943

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 aaggcttgag gggtcagtac aacgggcaaa gctgtaataa tcacttggtg gtactttttt 120
 cctggcattt ggtcctctga ttattgtcac ggtttctcta tttgctggtc tttatctgta 180
 ttttgggcaa agctttgtac acgacgggag caagaaacca gtcgcgccac caccatacat 240
 tgatccatat gagctactgg aagatgatag gatctcccg cctcccttg atgtgttctg 300
 aatctccacg acaaaaagga tagtaatttg tagatagctc aaataatttt cttgttttac 360
 tagatatgta cctgtaaattg caatagctgt anactgttat tatccggaaa t 411

<210> 5944
 <211> 271
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: LIB104-039-Q1-E1-E10

 <400> 5944

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tatgttgact atcgctatgt agagagggtta tatgctgaga gtgtacatta tgtgtcactc 120
 actcgtgatg ttctggaatg acggttctgt cgtatcacag agttctgcgt cataagtatc 180
 ctccgagtga gcctttaact gatcatagtt caggtgatgt tgatcttgaa agagctagac 240
 actctgaaac gtcccaatag tgaaagggat g 271

<210> 5945
 <211> 72
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-039-Q1-E1-E3
 <400> 5945

caaaagggttc aagcctaagt tacccttgaa ggcaacgtca tactcctcca atatggtcac 60
 caaaattcaa tt 72

<210> 5946
 <211> 355
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-039-Q1-E1-E5
 <400> 5946

ggtcgagaat tccccgggtcg acggggaagt tggtgggagg tggctcgcca aattcaagtc 60
 tgtcacctaa gacggaggac gtgctgaacg acctggacgc tgcagatcaa catggacatg 120
 gacttttcac tttctagagt aacacactga catggcatag tagtaggcga cggttctttc 180
 attataacgg cttataatta tcatcagact catactatta tgcaaagct tcctatgatt 240
 tcattgggta aattgtataa ttgtgacagg ttcatatatc aatgtcaaga aagagctgag 300
 caaaaaaaaa aaaaaaaaaa aaaaaaaaaa aacggccgct ctaaaggatc caagc 355

<210> 5947
 <211> 445
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-039-Q1-E1-E6
 <400> 5947

gggccaggat tccccgggtcg acgggtctcc aaactacact ataacagaga agtttgcact 60
tattatggat tatattgatg gggtgccttt taccgttgca catgatgatt ttgatgaata 120
taacatgcat gtgcttgctg ctctacttg caattattat gagagaggaa ctacatctcc 180
acctctttat gtttccaaca cgataaaatt gcaagaaact gcttatgcta tgtattgtcc 240
tttacttgat gtgcatgaat tggtctttta tgatatgctg atgcataggc agagagttag 300
acttcgtcat tgcattgatg actttgcttt gtgctcataa ctaaatgaca aatcattgtt 360
aattaaaatt ggctttgaca taccttgga tccgggtgga ttcgttactt gagcacttta 420
tgcctagctt aatggcctta aagaa 445

<210> 5948
<211> 451
<212> DNA
<213> Triticum aestivum
<223> unsure at all n locations
<223> Clone ID: LIB104-039-Q1-E1-E7
<400> 5948

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aaattgctag tctctcatgc ttcaattata tctttttgag agtcttttat aacagcatgg 120
tattttctat ggttataaat tggctcctaga atggtaggca tccaagttgg gtataataaa 180
aactatcata ggaagtgaat tggatgctat gatcaatttg atacttgata attgttttaa 240
gatatggagg tagtgatatt aaagtcatgc tagttgggtg attatgaatt taaagaatgc 300
ttgtgttgaa gttaggaagt cccgtagcat gcacgtatgg ttaaagttgt gtaacaaatt 360
tgaaacagga agtgtacctg gcttgtgcat ccttatgact ggcggtcggg gacgagtgat 420
ggtcttttcc tacantctac cccctagga g 451

<210> 5949
<211> 446
<212> DNA
<213> Triticum aestivum
<223> Clone ID: LIB104-039-Q1-E1-E8
<400> 5949

gggccagaat tccccgggtcg acggggtggt atcagttttt aggttgctcg gtgagaattt 60

ccagttttcc tagattagat ttattttctt acctattgtc caagaaaaat ccacaaaaaa 120
gagttagatc gattcatcct tgggtccaagc cagtctgagc ctttgcaatt ttcttttcat 180
tgcttgcata gttgaattat cgggttgcatc gtcgtgtcga gttgctggtc ttagtgtcta 240
gttccttttag agttttgagt tctgttcaca ttagtcacgc agccgctgca tcattatccc 300
atctgctgtc caccacccca tccatgaatt tccaccatgt gttacgcact gtttattgtc 360
ataattatag ttgaggtcac tcacatcgtc atctgatcga atctgcatct tatctagttt 420
gtcttggaag gagggagata aagaag 446

<210> 5950
<211> 469
<212> DNA
<213> Triticum aestivum
<223> Clone ID: LIB104-039-Q1-E1-F11
<400> 5950

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aaataaagaa tgtgttcatt acagtacctt atgtgggtgt tttgcgttct tgcactaacg 120
gtgcttatga gatttcctgt tgagttttgt gttgtgaatt tttcaagttt tgggtaaaga 180
tttgatggac tatggaataa ggagtggcaa gagcctaatac ttgggggatgc ccatggaacc 240
ccaagatatt caagaatagc caaaggccta agcttgggga tgccccggga aggcaccccc 300
tctttcgtct tggtttatcg ataactttac ttggagctat atttttattc gccacatgat 360
atgtgttttg cttggagcgt cttgtatgat attagtaatt tccttttagt ttaccacaat 420
catccttggg gtacacacct tttgggagaa atccacttga ttggaattt 469

<210> 5951
<211> 436
<212> DNA
<213> Triticum aestivum
<223> unsure at all n locations
<223> Clone ID: LIB104-039-Q1-E1-F2
<400> 5951

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ngatgtctat acttattggt ttgatcaata gatttgaggc cttctgcaaa caataaaact 120
 aaaataggtc attgatgcat ggtggccgtc ggagagtacc tcataataaa ggaaaataat 180
 tccgtctttg aaccaaagct aaattatcgt atttcggatt gacgtaaaca taaggaaata 240
 gtcggtatct gaaagtacca ttcttctccc gagctcaaat gcacttgtca tgaacagtan 300
 aaaaataaaa attaagttaa aatataaaat tttctgattt ttcttgacag taaacattgt 360
 tgaatgtttt acatacgtgc aattttcatg aagaaaaaac attcccagtg ctctaaaaag 420
 aacaaagctc caacat 436

<210> 5952
 <211> 439
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-039-Q1-E1-F4
 <400> 5952

tcgacgggac catgggccgc aggcaggcaa gtctgggaac cctcgttccc agaatgccga 60
 caaacatgtc cgtcatttta tcgacctttt tttcattgag ataacttcaa aaaatgtaga 120
 acttatcaaa aacacaaaca actttgtatg gtgccttgca ttgttcatac aaggatcatga 180
 acttttgagg gggggggggg attttaaaag atgtcaagaa acaaagtgtc ctcagactga 240
 gtcttctggc ctacccggac accctccgtt gaatattagc tattttttaga cattactaaa 300
 atgatcccaa cttttacaag cagggtgggca tgtccatggt aagcaccaat gtgaggtttg 360
 aacgatatct gacacgtct gtaagttgag atagtttagc catttatcac cattttgata 420
 gagaaaactc cagagaatg 439

<210> 5953
 <211> 411
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-039-Q1-E1-F7
 <400> 5953

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 gacagggggc gcgcctagta gggggagggg gggcgcccc ctatatcccg ggctcctcga 120

gtatcttctg acatggactc caagtctcca ggatgataat cttccaaaaa aatcacgttg 180
 ctgaagggttt cattccgttt ggactccgtt tgatattcct tttcttcgaa atactgaaac 240
 atgcaataaa acagcaatat ggttgggcct ccggttaata ggtagtcca aaagtaatat 300
 aaaagtgtat aataaagccc ataatcattc aaaacagata ataaaatagc atgaatgctt 360
 cataaattat agatacgttg gagacgtatc aaacaatcaa aaattataga t 411

<210> 5954
 <211> 431
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-039-Q1-E1-F8
 <400> 5954

gggccagaat tcccgggtcg acgggatatt tattatagta attaaagaaa aaggcaagtt 60
 agttagggtg tgccacagaa tgcaatgctc cttcatcat catcatcatc ataattgtgat 120
 cagagctgag acctgatcga tggcacatat tagtacgtag atcagtactc ctgctcacac 180
 aagtccagta atgagatgcc tcggttgctt cgcttcaaaa aaaacaaaca acaaaaaaaaa 240
 aaaaaaagat gaaaaaaagg taaaaaagtt aaaaaaagga ataataaaaa aatgtaaaat 300
 aaagccacaa taatcattca aaatagacgg ttcagctagc atgaatgctt cagtcgatta 360
 tagatacctt ggagacctag cacacaatca ggtattacag atacgacggg aacgtatcag 420
 catccccaaa g 431

<210> 5955
 <211> 433
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-039-Q1-E1-G5
 <400> 5955

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 tgtggagcct gcagctgggtg gagagcagac tgtcattgag gctgatgttg tccttgtatc 120
 tgctggcaga gtcccataca ctgctgggtat tgggctggac gccattgggtg ttgagacaga 180
 caagggcgga agggtccttg ttgacaatcg ctttatgaca aatgttaagg gcgtatacgc 240

gattggagat gcgatacctg gaccgatgct tgcacacaag gctgaggagg atggtgttgc 300
atgtgttgaa tttatcgcg ggaaggaggg ccatgttgac tatgacactg tacctggcgt 360
ggtgtacaca caccagagg tggcctccgt tggcaagacg gaggaacaag tcaaggcatc 420
tggtgtagcc tac 433

<210> 5956
<211> 457
<212> DNA
<213> Triticum aestivum
<223> Clone ID: LIB104-039-Q1-E1-G6
<400> 5956

ggtccagaat tcccgggtcg acggggcagg ctaacatata ggtgtagcca tttttctgac 60
ataaaaataa cagtaaagaa gaccaagtta acatatgtat caggttgcggt ttacctgatc 120
agaagaaaca ggcagggttta caatgttttg tggtgcacat tgctactttg gtaccttgat 180
gcgaagtaat aatgtcttta agctttatta gcaccggaat aacagcaaca aaagacagtt 240
tttaccactg cacttgacaga gttctctgaa cttctgataa ccagacatca gggttctcta 300
aaagaacaga cattagctaa cataattcag cacaagaata acagttcaaa atgccaaaag 360
agtattagta caccataagc aagtgttggtg tcgttagcag cgtcgaagtt tctatttctg 420
aacttgacaga acttcattgt catgtaattc agattga 457

<210> 5957
<211> 453
<212> DNA
<213> Triticum aestivum
<223> Clone ID: LIB104-039-Q1-E1-G7
<400> 5957

ggtccagaat tcccgggtcg acggggatca gcgcctcacc gtcggaggag aacatgcgct 60
acttcaatgt catggctcctt ggccccgcgc agtctcccta cgaagggtgga gtcttcaagc 120
ttgaactttt cttacccgag gaatatccga tggctgctcc taaagttagg tttctcacia 180
aaatatacca tcccaacatt gacaagcttg gtagaatatg cctcgacatc ctaaaggaca 240
agtggagtcc agctcttcag atacgcactg ttcttctgag cattcaggca ctgctgagcg 300

ccccaacc agatgaccc ctctcagaaa acgtcgcaaa aactggaaa tccaatgaag 360
ctgaagctgt tgagacagcg aaggaatgga ctgctatgta tgccagtggc gcatgacagg 420
ctaacgctgt tatggatgta ataactgt gtc 453

<210> 5958
<211> 464
<212> DNA
<213> Triticum aestivum
<223> unsure at all n locations
<223> Clone ID: LIB104-039-Q1-E1-G8
<400> 5958

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cctaaccag gactccctca gtagccctg aaccaggctt caatgacgat gaggccagc 120
cgcagattgt ctccgcatg gcaaggcggg ttctctctcc gaatacttca tagaagattt 180
tgaacacgag gatcgtgtct ggctctgcaa aacaagttcc acatacaacc gtagagagaa 240
taatattttc acaaattctaa tctgccgacg cattctgcag tgtgacatca caccacagcc 300
aggttaccat tcaaactggt tttcacaacc aacctcagcg tgtttcgga ggcggtttcc 360
ttggcacgtc ttgtcgaagc agagatcgtg tcccttatt acgggattcc tatcaatacg 420
gacatgggta acccaaccgc gccatcaatt actgtcacat ccct 464

<210> 5959
<211> 394
<212> DNA
<213> Triticum aestivum
<223> unsure at all n locations
<223> Clone ID: LIB104-039-Q1-E1-G9
<400> 5959

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ggagctctca agggcctgca gtttcatcat gctctcgcc tacgtcgctt acctctctt 120
ccagctcaag acgcatcgcc agctcttcca gccgcaggag attgagggcg gcgatgatga 180
tgaggaagag gcggtcctcg gctttgggag cgcgctcttc tggctcatcc tcatgaccat 240
cataatcgcc gtgctctccg agtacgttgt cggcaccatc gagccgacct cgcagtcgtg 300

gggtctctcg gtgagcttca tcagcatcat cctgctcccc atcggttgga acgcggcgga 360
gcacgccgga gccgtgatct tcgccctgaa gaac 394

<210> 5960
<211> 444
<212> DNA
<213> Triticum aestivum

<223> unsure at all n locations
<223> Clone ID: LIB104-039-Q1-E1-H11

<400> 5960

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gccgcccgt cagccgcctg ctgaaccgcc cgctctgcct ctgggcgtgt cctgtcctga 120
tcaaccaagt taggggctcc atcacgcgtc gggatcatgcc cgcacggttg gtcacggcgc 180
cgggcgttgc ttgaaactgc agccgagtc atatgcctgc tatagctcgg gtcgccgctt 240
gggcgagggg tcgaatgaat cctgtctcga ctataagaat atgcttctct ctgtgccaga 300
gccgtctgaa gaagttctgt gacccttcgc gtttcgaccg ctgtcggaga gtcgccttcc 360
actgggagag ccgccaatcg tgccgccgca gcaatcatgt tctccaacgg gttagaataa 420
tgaccgggag gtgtcggtac atac 444

<210> 5961
<211> 372
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-039-Q1-E1-H5

<400> 5961

ggtcagaat tcccgggtcg acgggtttgg tgaaaatccc aaacgatgca tacattgcca 60
cagaatacat gcgacagctg aacaatcatc tggtaaatt gttcgccgtg ttgtgtgagc 120
atatagcact tgtggccact ttgtcatgac tccagcacat gctgagagtt tgatgctaca 180
acaatttata tgagactaca tggtacaata cttcagtact atcgacttat tatgagattg 240
attcagttga cactaaaaac taggttggtt aatgttgcca aaattactgg atatggctcg 300
tggaattca aggatcgctt ttattcatat gtaatcatca tctccgtgaa tgcaagagca 360
attgtgaatg tc 372

<210> 5962
 <211> 459
 <212> DNA
 <213> Triticum aestivum

 <223> unsure at all n locations
 <223> Clone ID: LIB104-039-Q1-E1-H6

 <400> 5962

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 tacttctcgt ctggatagtg tactcaacgc cacacaatac tataccgtat gcaagcctgc 120
 aggtagctag ctagcctgag agagacagac cgaatccgac agatatctca gaagaatttt 180
 ctttacgtgc ccaatatcaa tatgggctct gaaatgaggg taggggcgcg tttgttacct 240
 gcatcgtttt ttgccacttt gcatacttgt cccaactggg cctggctgag catatacagg 300
 ataaaaacca acatctgcat gttgattggt tacctgcatc ncctccagcc taaacgtgct 360
 aaaacgaaag gcctgatgtt tgcttgcgga ctttgtttga ggggaaacac angtcggtt 420
 gtttggttat gtacaggaca gttgtgtggt aacctccta 459

<210> 5963
 <211> 402
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: LIB104-039-Q1-E1-H7

 <400> 5963

ggtccaggat tccccgggtcg acgggatgca cgagttcttc gtccacttcc acggacccaa 60
 agacagtatt taccaggggtg gtgtgtggaa ggtcaggggtt gaactcaccg aagcttacct 120
 ttacaaatcc ctttccattg gtttcaccaa caagatctat caccccaatg tcgatgagat 180
 gtctggttct gtctgcttgg atgtgatcaa tcagacatgg agcccgatgt ttgaccttgt 240
 gaatatcttt gaggtgttcc tgccccagct tctcctgtac ccgaaccctt cggacccctt 300
 gaacggcgag gcggcttcgc tcatgatgcy cgacaagaat gcctatgaaa ataaagtcaa 360
 agaattattgt gagagatatg ccaagcctga agatatatcc cc 402

<210> 5964

<211> 368
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-040-Q1-E1-A1

<400> 5964

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 acacaaagtg aatatagaag tgttcaagac tgtgaagcgg gaggttcctg gtatatctac 120
 gttcattgta cttagttaag ttgatgttac tgttggtttt tctcgctgcc gccatgccat 180
 gagcaggcga ggcaggcagc ttctcaaact tgtgttggtg taacttgat gatgggagct 240
 taagtacatt actttgtttc gaaaaaaaaa aagagaagag aaaaaaaaaa agcggccgcc 300
 caaaaggttc cagccttact tagccttgca tgcaacttca tagcccttca aaagtgtccc 360
 ccaaattc 368

<210> 5965
 <211> 435
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-040-Q1-E1-A3

<400> 5965

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 ttcctacaac caataaatt aaatgcatcg gaaatgccgc cttegtcttt ttccatctgg 120
 aggggtgccc aaccatcttg tgcctaataa agtatacatg cgtagcttag gcacgcgttt 180
 agtctgtaag ttgcattgtc atcaacatca aaacacttaa ggaggaaaat gcccttcag 240
 taatgtgcct tgtaggcct ttggcgttgg aaccaagtc cccacctata tttcaagata 300
 aagcatgctt atgtttaatt cgtgacaaat atgtgttttc aaattaacgc aacaaaaaga 360
 atgttcaata aaagactaga tgcttttctt cacagcttct tatgccatt ggtccatcaa 420
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<210> 5966
 <211> 415
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-040-Q1-E1-A6

<400> 5966

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gactaatgat caacatttaa cttgacaatg cgtatTTTTT ttagaagaac agggaggctc 120
ctccccggtt ccattatcaa atgaaaccta aagtgtctta catcagctca ctgagaggag 180
cagttcaaag gaaggactgc ggcgaaaccg actcaagttt aatgacaagc ttacagaatc 240
aaaagcggca aagacacggg ccataagcgc ccacacacgc actacatggt ttctaagtgc 300
acttgataat gcgtatgtcc aggtgaacct ccttgaggcc cccgtgcacc gagtcgggtg 360
gtaaaggatg gaattgatgc catgtgtttt ccaagtccac attggcgga taatc 415

<210> 5967

<211> 364

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-040-Q1-E1-A9

<400> 5967

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caacgtctac aagaagaagg ttgtgtagta gacatcaagc tcttttctgg cgccgttgct 180
ggggagggtga gtgcttgaag gtatatcttt agatcttgca atcgaatctt tttgtttctt 240
gttttatcac tagtttagtt tataaaagaa aattacaaaa aaaatggagt taagtttgtc 300
tcatacgctt tgtcttttta atatctttcg tgagtttgat ggaaaggaaa attgtgctca 360
agtt 364

<210> 5968

<211> 382

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-040-Q1-E1-B7

<400> 5968

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ttcttctctcg tcggtgctgc tggttgcggc ggtggtggcc gctgtggtgt gcggcgcgca 120
 cggcatcccc aaggttcccc ctggcccaaa catcacggcg tcgectgcga gctacggcaa 180
 caagtggctg gacgccaaga ccacgtggta cggcaagccg acggggcgccg ggcccaagga 240
 caacggcggc gcctgcggtt acaaggaggt ggacaaggcc cccttcacag gcatgacctc 300
 ctgcggaac atccccatct tcaaggatgg ccgcggtgc ggctcctgct ttgagctcaa 360
 gttgcacaag cccggggcct gc 382

<210> 5969
 <211> 382
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-040-Q1-E1-B8
 <400> 5969

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 ctctacatg gcctctcacc gctaccttta ccaaaacgtg ttcacacact tagctcacac 180
 atagtaggac atgttcacac gcctctgatt catccccgat gaatcagacc tgactcaact 240
 ctaagcagta gcaggcagga caaacaaca tgaatgagta ggcacatcag ggctcaaaca 300
 actctactc atgctagtgg gtttcatcta tttactgtgg caatgacagg tcatgcaaag 360
 gacaaagggg ttcagctacc gc 382

<210> 5970
 <211> 426
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-040-Q1-E1-C6
 <400> 5970

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 gtggtggttt gttttcttat actaacggag ctcatgagat tttctgttga agttttgtgt 120
 tgtgaagttt tcaagttttt gggtaaagat ttgatggatt ttggctgaac ttcgtactta 180
 agtagtcacg gtcgggtgga ccttaagggtg gtggtttgtt ttcttataact aacggagctc 240

atgagatttt ctgttgaagt tttgtgtgt gaagttttca agtttttggg taaagatttg 300
atggattttg gaataaggag tggaaagagc ctaatcttgg ggatgcccaa ggtaccccaa 360
ggtaaaattc aaggacaacc aaaagcctaa gcttggggaa tgcccggaaa gcatccctc 420
tttcgt 426

<210> 5971
<211> 415
<212> DNA
<213> Triticum aestivum
<223> Clone ID: LIB104-040-Q1-E1-C8
<400> 5971

attcccgggt cgacggggaa gataagatta ggaaggttca ggagctgaag gcgaaagcga 60
aggctgcttt ggagaacggc gggtcgtcgt gcatgaatct ggacaagctg gtccaatccg 120
tcgtctgaaa attagcgcag catgtcggcc cagaataaat tctgctgctt tcgttcattg 180
atggacatat tggggccggt tcttgcttga ttggaagatc aagactatgt tgcaactgtt 240
gtttagctgc aactgtgtct catgccaaact cagtctacaa gtctcttggt tagcgtgcc 300
tgctcgtaa aaaaagataa cgaagccggc aggtgctcta ccatttgaat aaggaaagtc 360
tagagaatgt ttacaagata gctgcttcga gaaccgacag aaaaatcaca caaag 415

<210> 5972
<211> 414
<212> DNA
<213> Triticum aestivum
<223> unsure at all n locations
<223> Clone ID: LIB104-040-Q1-E1-D1
<400> 5972

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gtccgtact tcgagcaata caagaatatt ttacgctcgg acaaccggg gaagcctgaa 120
tcctggatta gaaaggccca catggagact ttcggcagtt gggtgcgaaa acatttaatg 180
aatgacaatg atgttgaga tcagctgtac atgttgcca agaaaccatc ttcgactata 240
acgactttcc aagggtacga gataaatggg aatacathtt acaccatcgc ccaagataaa 300
aagagcacca accaaaacag tgggtgccgc tttgatgcag caaccgagaa tgggcaaaag 360

gtcacatatt atgggttacat anaggagata tgggaacttg actatggacc ctcc 414

<210> 5973
 <211> 414
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-040-Q1-E1-D7
 <400> 5973

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 ttgtgtgatt tgggtgctag tgtttccacg attccaaaac attgtgtgat ttgctaggat 120
 tccgtgaatt tgatgattgt tctttaaact tgcaccttgc ggattccact attaagaaac 180
 ctatggaaag aaataatgat gttcttattt ttgcatatag gaactatgtg cccgtagatt 240
 ccattgttcc tgacatagat tgcaatcctt catgtcctat tattcttggg agacctttcc 300
 ttagaacgat tgctgcaatt attgatatga aggaagggaa tattagattc caaattccat 360
 taaggaaagg tatggaacac tttcctagaa agaaaattaa attaccatat gaat 414

<210> 5974
 <211> 426
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-040-Q1-E1-E11
 <400> 5974

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 cgaagatgag gagcatattg cttctctgag gcctaaaaga tcaaagagac tagtgaggag 120
 cacgggtgag gataaggaac ccgttgctgc ttgtgatggt gagaaacctg cagatgcagc 180
 tgaaaacaat gacaacaatg atgcagaaga gttgcaatcc cagactcctt cagcctagtt 240
 gacctactgg gttgacctga tgaaaacata agatgcgaat ggcaagactc taatttgtgg 300
 tgttgagtag gagcatcaaa gatggcacc attggaggag ctctggatct gcttaagggtg 360
 ttacgcagtt caataagtat ttttaactgtg ctgtgcaacc tcttttcaaa agcctgggac 420
 cgcaac 426

<210> 5975
 <211> 381
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: LIB104-040-Q1-E1-E12

 <400> 5975

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 agcattaagt ctgccctcaa tgggtggatca agcctggcat tcacatctgc catcctggac 120
 gttggtggta atactaccag agtggacatt ggccaagcgt accatgcata cacaacggaa 180
 taagaagccc gagcctgcgc attgaccaac gttgtttacg tgtagcacac atcatgcaaa 240
 ccagctcggg gaatTTTTga gctgatgcgt gctgttatgt ctgttttgct gatgcaccta 300
 gttcctttgc aaagctgtag taacttgttt tgctcgaggg caatacaaca agacctggaa 360
 taaatatctt gttttatttt g 381

<210> 5976
 <211> 409
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: LIB104-040-Q1-E1-E8

 <400> 5976

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 gtgaggatcc gcattagaag gctttgcaag gccttggaag aggatgcttt caggccagtg 120
 ctgcaccact atgatgggtcc taaattccgc ctcgagctct ccatagcaga gacactgtca 180
 ctgctagacc tgtgcaagac agaagacgcc tgatctgctt cggaacatgt ttgtggttgc 240
 tctgtggttc tttttagtaa atatcatccc tgtaagttgt ggaagatgtt ttcacaatga 300
 tctgtcccggt ccgtcgtcca tgaaagcgca agctgttggt tgggtggtgc atttccccca 360
 gaaaggacct ggtactcgga agaagtaggc ctctaaagat gtgagcctg 409

<210> 5977
 <211> 366
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: LIB104-040-Q1-E1-F11

<400> 5977

gtaggcgtca tgaattccag ggtcgacggg ctgcgtgaag gcccgattgt cctgttgacg 60
agtgccatgc atggcagttg gcagggaaac ctctcgttg ttcacccttg tgttgacta 120
ctagttcatc tccttgatac aatgctgcat acgtaagtaa aaatattgag tgaacaatgt 180
gctgcattga gaaatctgag taattaagta aaaataagta gcaaaagtat cctgtaatcg 240
actacataat catctgtacg tgtgcagacg atatgcaacg aaccgtcaag cagtgcctcg 300
cccacgtacg tacaggtctc cataaccatg gcgtacgtgc atgactcgtc cggccggggc 360
acagcc 366

<210> 5978

<211> 446

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-040-Q1-E1-F2

<400> 5978

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tgcaatggac gttgcagctg ctcgagtaat gaaatatatg gagaccatgc gtgccaaggt 120
attgaaagac tatagttaca acgagttgca acaaacaag gaaagagaac tgcatctgat 180
tggtttgtta ggacaaagaa aaagaaatca aagaacaggc tctgaagatt agagaactta 240
gcaaagactt tgcagactac ttatatcagg ttaaaagcac ttcttctgag attcaccgcc 300
cagctaaagg aagtgtatgc tcagccaatt ccataagtgg ttgcgagctc caciaagcgg 360
ctatagatat tcataatgca attgctcatc ttggccagtt gagtgaaaac cctatgcaag 420
gtaacaaaaa cacatcggtat tatcca 446

<210> 5979

<211> 437

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-040-Q1-E1-F5

<400> 5979

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ccttctctgta tgtgggtctcc agtaccacct cttgagttaa aaggcgtgaa tgctgatgca 120
 cttgatgcaa atgctgggtt tgttactttt gttgttttcc ctccggcatgt tgagggtaga 180
 aagctagaca aaacagtttg gagtttgtta accttccatg cttatgtaag ctaccatgta 240
 aagtgttctg aaggattcat gcacaccagg atgaggcgta gagttgagtc tctgatccag 300
 gctttggacc gtgctaaatc cgatgcagag aagctgaaga agttggtaca tggcgggtct 360
 tttaggagac tgagcatgaa gcacgaaggc aactctaate actgaaggaa gactcaggca 420
 aatatatgaa agttttg 437

<210> 5980
 <211> 430
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-040-Q1-E1-F9
 <400> 5980

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 tggacgcgac caatggcaga aaccgcagcg atagcaccac caccacaacc aatggcacca 120
 ccgcaaccag tggaggaaaa cgcaacggcg gcaccgtcac aaccaatggc accaccgcaa 180
 ccaatggcgg aaaacgcaac ggcagcacca ccgcaaccaa tggcgggaaag cgcaactgtc 240
 gttgtgggtg tgccaccacc accgccagac ggcaccacga cattcctctg cctcatcctc 300
 gccttcttca tccctccoct cggcggttttc ctcaagtaca aatgtgagat tgaattctgg 360
 atctgcctca tcctaacatt cttggcctac gcgccgggca tcatccaagc cgtccgggtg 420
 atcgtgaagt 430

<210> 5981
 <211> 438
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-040-Q1-E1-G1
 <400> 5981

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 caaagccatc gaatctctcc cagacagtga cgatgaagat gttctgattt caaggcgcg 120

tcttattgat atcacacaga gagtcatcac aaggacaaaa tagcatgatt atacacaggg 180
 tggagaagat aaggcggagt ttcaccacag gtgtagtggt ccgcttgga atttttgggc 240
 gccttgggtca ttgcattctt tccattgccc gggttttgtg taacatttga tgagacttca 300
 gggtaaccat tcttggaat catcctaagt cgcagctgta gtggtttttag ttactgggtgg 360
 cagcaaaatc tgtgtattaa tatcacgatt ggcgattgca cgaagacctg accataagac 420
 tgttaccttt ataatcca 438

<210> 5982
 <211> 444
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-040-Q1-E1-H11
 <400> 5982

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 taaaaaatac tcaaaatttt ataataccac cgttacttta actataagaa aaatggctat 120
 ttgtatcaaa tcctaacatt aaacattaaa aatagacggg cgcagcaacg ccgccatcgg 180
 tgatctagtt gtgcactaaa ctactccaat ttccatctta tgggagaatt tcaagctaga 240
 ctcttgctat atgcagattt tgtcttccag gttatggata tcacattgca tgtattcacc 300
 gttgtgggtgt catctaata tacttttctaa ctatatatac atcattgaca gttcatatct 360
 tcagttgtgc aatattttac acacaacttg tcttctatt gcgggaaaca ccaatatatc 420
 ttggcaaagc tggactgaga atga 444

<210> 5983
 <211> 401
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-040-Q1-E1-H5
 <400> 5983

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 ttagtaccac tctaccaag tttgtactcc taatactatt atattactag tactaccact 120
 atacaactag tagatactg cagggcacia catcgtagga acaaaaaacg ggaagatctt 180

gttttgggtg atttatcttt ttttcaatca acgtagtatg aataatatga tgtggggggc 240
 acccatgaag cttatgtggc ttggttgcac ggctacgaaa ggtagagaa aaataaatag 300
 ataatgtgtt tagagtgcac tccactaaat agatacactt tggatccatt gcaacagacc 360
 ggcacatcta tatctatacc ccctataaag tgtgtgaaaa a 401

<210> 5984
 <211> 419
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-040-Q1-E1-H7
 <400> 5984

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 tcctcacctg ccccgagaa gagagagaga gaaaagcagc gagacgcgaa tcagcggcgg 120
 cgatggctct cccggcgtcc ggctccaccc tctcccgctt cctctcctcc cgccgcatcc 180
 agcccacgga catcaccgcc ctgcgccact ggggcgtctt cgccggcagc gccgccatct 240
 acctcgcca gccattcgac tggatcaaga agaccttctt tgagaagccc gagccagagg 300
 catgagtgtc atacatggca acttttgatg cctacatttt caggacgatt ctctgagttt 360
 ggatgaccca gccataata tacaagaccc tcgtgttccc ttgtttgatt tcccatcca 419

<210> 5985
 <211> 381
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-041-Q1-E1-A1
 <400> 5985

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 ataatgcccg gctttgctac acacacggaa taatacggag ttttacgggc ctggacgccc 180
 accccaccag ttaaaatcag ggggggcggg taagtaggtg gagaagttaa cttttgcaa 240
 ttacaacact aaaggtcagc gcgtccgtaa aacttgtgog tgtgcggcac gtgtgtctag 300
 catttttgcg ataatgcctg tgtcctgaag tcgcacaagc cttgcttcca agcaacatca 360

cgagtactga acacctttcc t

381

<210> 5986

<211> 87

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-041-Q1-E1-A10

<400> 5986

ccctatagtg agtcgtatta cgcaggcagg tatgttctgg tcactgccgg ctgcgcgatt 60

tccgacgacg gcaatcgatt ggagtcc 87

<210> 5987

<211> 453

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-041-Q1-E1-A12

<400> 5987

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acttgtaata cgacaattat tttaaaaaag tgttctcaga aacgagctat cacgtgtgga 120

gatcaatggc tttcaggcga aatgatcaat cttatggcca cattcatggc atagtttggt 180

cagatgatct catattgtgc acaagggtgc atattggaat ggcaaacaat gttgcctaag 240

gaagttttca ttttgtttg acgaaaaaac cattttccat tcttcgagtg cccaaaagga 300

ggtttttttg tgaaggacct cccaaataat tgttgcataa ttgtaccaa tcatttttct 360

aaaatactag tccatattta atgcacaatt aacaaaaatg gttgggtgta aaatgttttg 420

atccacctct cgtgaaaaag acaaatttcc gcc 453

<210> 5988

<211> 286

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-041-Q1-E1-A6

<400> 5988

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ccgtgtcagc agccaggcga cgcggagggg atgaaggga tacagagaac atgtttctgt 120
ctaggtcatc ctgcttactt aggggaggtg gatggccga cagaaggcat gcacatattg 180
acgagggccg agactaattt gttaacggtt atttttaagg tttattgtct gtttatttct 240
attttacaac ctgaatgaca aatgggacac aactgtaac agaaca 286

<210> 5989
<211> 379
<212> DNA
<213> *Triticum aestivum*

<223> Clone ID: LIB104-041-Q1-E1-A8

<400> 5989

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acgtgcccag cgagatgcag agagaagcac aatcaatcga gtgactcaaa ctatgtgccg 120
ttgatgaaca ggaaaggttg taaaaacaca ttctgaatta catagaaact tgtaggctgc 180
atctgtatca tggatttgtga tccccttatt ttcgttggtt tggatctgtg cacatacacc 240
ctacacctat actgttggtt tgctgttgcc acattcttat ttgttcgatt acctggacag 300
tgttctgtta tttgtatata caccagcata tgctgaagga caaacggatt ccaaaaaata 360
aaatcgtgca taataaaac 379

<210> 5990
<211> 386
<212> DNA
<213> *Triticum aestivum*

<223> Clone ID: LIB104-041-Q1-E1-B12

<400> 5990

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ctcagtagaa cgataacctc tgtgcacagt gatgtttcag tttctacatt gatggtttca 180
agcataagaa ggtttcaaaa ttaaatgagc cttgtacagg actgataaca aattatgctt 240
tctgagtttc aagctactga aagtaattga agctttgctt tcgctatgta agaatgggtg 300
catgtgttaa ttagtggtgc acattttttg agactgtcca aaattctatt ataaaatgct 360

tatatgaaaa aaacggaaca aaaacg

386

<210> 5991

<211> 443

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-041-Q1-E1-B2

<400> 5991

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ccggtgggca tattttcac agggaatcgt gcttccacca gtctggggat tccaagagga 120

aagtgaaccc gacgcactac cgggagccga ggttctacac caaggtgttt aaggaatgcc 180

actcctatga ccaagagggg aattcctttg agctttctct ggtaacttcc aagtgcattg 240

gagcttatgt gaaaagcaag aagaaccaga accagatatg ttggctgtgg gagaggggtca 300

agtgcacaga agacaaaggc tttcagagat tcttggacaa tgtgcagtac aaatccactg 360

gaatcttgcg ttatgagcgc gtgtttgggg aggattatgt tagcaccggt ggattcgaga 420

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<210> 5992

<211> 404

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-041-Q1-E1-B4

<400> 5992

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attagcatgt ttgagttttg catgtagtct agtctagtgt ggcgttcgtc cgacgaaggc 120

ttcaggtgag cgcgccaagg aggtgagatg ccaggatgcc gtgtgaggcg gcgagcacgg 180

cgagatgccg atggtgctgc gtgagaagcg gcaagacgta tcagaggctg gagccgtgat 240

ggactgcac aaattgggtc ggggtgaaccg gccggtcgtt ctgtttgttg gactagctgt 300

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tgtagttggc ctggtcacaa gtggttaccg agtcgtgttc aacg 404

<210> 5993
 <211> 437
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-041-Q1-E1-B7

<400> 5993

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 aaccgtctgc tgcgccctcc atgacggggc tgaaatggca ccttcagaag cagcactgcc 120
 gctactcggc atggttctgt acatatctct gtcgattcga acaacgcacc aggggtgctca 180
 gctatatattt cagcgcagtg gcggctcgag gacaggcggg ttttaagattt gatttgctgt 240
 aatgctacga ccaagtgtaa caatgtactt atatgcactg caacctttgg aggctgcgca 300
 cagggtgattt gtatggttgc ttacattggt ggatatttaa ttgtgcacaa cctaaatatt 360
 atgcacacat cgccattggt tccgcttggg aaatgcgacc cataaatgtg ttccaaaaaa 420
 caaactcctt actggga 437

<210> 5994
 <211> 431
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-041-Q1-E1-C12

<400> 5994

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 aaaattagtc ctaatatgat aggcattcaa gatgggtata ataaaaactt tcatatagag 180
 tgtattgaat actatgagaa gtttgatact tgattattgt tttgagatat gaagatggta 240
 atattagagt catgctagtt gagtaattgt gaatttgaga aatacttgtg ttaaagtttg 300
 caagtcccgt agcatgcacg tatggtaacc gttgtgtaac aaatttgaaa catgagttgt 360
 tctttgattg tcatccttat gagtggcggg cggggacgag cgatggtctt ttcctaccaa 420
 tctgtccccc t 431

<210> 5995
 <211> 358

<212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-041-Q1-E1-C2
 <400> 5995
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 tttcagggat ttttgcagtg ggattttag ggtactatgc tgcgctgtgt ttgggatttg 120
 aaataaaacg atgggagatg tgccacgctc ttaaattgcca gtcttctgct ctaatcttgc 180
 taaattactt gttgcatttt gcagcttgtc tacctttaca gtgactacct tcttttggtc 240
 gtgctcattt ggcaaaacag tttgtctaatt tcacatctac ttogtgtctt tttagacatt 300
 tcaaatagac aacaacatac ggatgtatgt agacatattt tatagtgtag atccattc 358

<210> 5996
 <211> 424
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-041-Q1-E1-C6
 <400> 5996
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 cccggaccag cagcgctta tcttcgccgg caagcagctg gaggacggcc gcacccttgc 180
 cgactacaac atccagaagg agtccactct ccacctgggtg ctgcgcctgc gtggcggtat 240
 gcacatcttc gtgaagacct tcacaggcaa gaccatcact ctggagggtg agagctctga 300
 caccatcgac aacgtcaagg ccaagatcca ggacaaggag ggcaccccc cgaccagca 360
 gcgccttata ttcgctggca agcagctgga ggatggctgc acccttgccg actacaacat 420
 ccag 424

<210> 5997
 <211> 309
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-041-Q1-E1-C7
 <400> 5997

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 gcctggcgtc acatgtcgga gtcgccatct ggcgtattac cactcggca cctaacgata 180
 tccctatgca gcggttgctg atcgtgcttg gcgacaggga cgtaccctga agcgccgcag 240
 ggagctccac ggttgcggtg catgcacgga gcttggtgtc gacgtgtcgc cggcgcgcgga 300
 gcgctcgag 309

<210> 5998
 <211> 432
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-041-Q1-E1-C8
 <400> 5998

gtccagaatt cccgggtcga cggggatgaa aaactacatg ctgagtgggc agcagccaag 60
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 ccagatagcc tttttgatat acaaattaaa cgcattccacg aatacaagag acagctgatg 180
 aacatttttg gagctgtgta cagatacaag aagttaaagg aaatgagcgc agcagacagg 240
 cagaaggtta caccgcgcac tgtcatggta ggagggaaag catttgcaac atacaccaac 300
 gccaaaagaa tagtgaaatt ggtaaatgat gttggtgctg tggatgaaca cgatgctgac 360
 gtcaacaaat atctgaaggt ggtgttcatt ccaaactaca atgtatcagt ggctgaagtg 420
 ctcattcctg gc 432

<210> 5999
 <211> 369
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-041-Q1-E1-C9
 <400> 5999

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 ctagccaagc atgtattgga tgtgactggt gttacaattg acccagatag cctttttgat 120
 atacaaatta aacgcatcca cgaatacaag agacagctga tgaacatttt gggagctgtg 180

tacagataca agaagttaaa ggaaatgagc gcagcagaca ggcagaaggt tacaccgcgc 240
 actgtcatgg taggagggaa agcatttgca acatacacca acgccaaaag aatagtgaaa 300
 ttggtaaatg atgttggtgc tgtggtgaac aacgatgctg acgtcaacca atatctgaag 360
 gtggtgttc 369

<210> 6000
 <211> 218
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-041-Q1-E1-D12
 <400> 6000

ccctatagtg agtcgtatta gacgtgtatg gaagtcctag gccaggcgac tatttcacgg 60
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 aactcagtag atccttttag gacgccctca gtgaccacag gttgaaccta acgaagttag 180
 actgtgctat ggctcgatat tcacgcacta gctgtacg 218

<210> 6001
 <211> 425
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-041-Q1-E1-D5
 <400> 6001

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 accatgggtg gggacttgg tttgatacag attgatcaat caacagtagc catcaaggag 180
 acttttgga agtttgatgc gatcctgcaa cctggatgcc actgcttgcc atggtgccta 240
 gggcagcaga ttgctggata tctttctctg cgtgtgcagc agcttgacgt ccgatgcgaa 300
 accaagacca aggataatgt ctttgcacac gttgtggcat ctgtgcagta ccgtgctctt 360
 gctgacaagg catctgatgc cttttacagg cttagcaaca ccaggagca aatccagtcc 420
 taagt 425

<210> 6002
 <211> 408
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-041-Q1-E1-D6

<400> 6002

aattccccggg tcgacgggtc aggaggcatg cacgaatgat gaggggggat gatgtggctg 60
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 ataacttgtg aggtacgtcg atcgatgggg gggtagttaa agtcgatcta ggtatatgtt 180
 gggagatcaa tcggtataca tgcattgtgtg tgttagaagc aaatgaggca cgaggagaag 240
 gatagagaga gagagaggga tgcattgtagg aggtggtacg agaggcatac tatatcgagg 300
 gtggaggagt gtgcgagtac gagaatgatg aaaagagtgg tgggagtgag gcatggatgg 360
 tgacaagaga agaggggaag cttgtgtttg tgctaggcac acctggct 408

<210> 6003
 <211> 360
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-041-Q1-E1-D7

<400> 6003

tacgggagaa gaagaagaag gagcagaaga tgaagaagaa gaaggaggag aagaaaaaga 60
 agaagaagaa gaaacagaag aagatgaaga agaagatgaa taagaagcag aataaggaag 120
 aaggataaga agaagaagaa gaacatgaag atgacgggaa gacaagtaag aaggataaaa 180
 aggagaagga tgagaaaaag aaagaagatg gcgaaggctc agaaaaggag aaggccatga 240
 aagggaagaa taagaagagc gagagcaaag agaaggataa aaatagcgtc aaggagactg 300
 gagctgatgc agatgacagt agccccaaga acaaaaagaa ggagaaggac aaggcaaaga 360

<210> 6004
 <211> 411
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-041-Q1-E1-D9

<400> 6004

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gtacctcttt gtgcgttggg gcctgcccgt gggcaacatg tacattgtcc tcggggaaca 120
tggcgacacc gaccgtgagg agatgctttc aggactacac aagacggtga ttgttaaagg 180
cgtcaccgag aaagggtcag aggacctgct gaggagctca gggagttacc acaaggaaga 240
cgttgtcccg tccgatagcc cattggctac caccacgcgc ggtgatctga agtcggatga 300
gatcctgcgg gctctcaagg aggtctccaa ggcttccagc ggctgatcgg ttgcccggaa 360
gctcgatgat gccgaacatc ttcactcatg ctatttaata tcttccgctt g 411

<210> 6005
<211> 87
<212> DNA
<213> Triticum aestivum
<223> Clone ID: LIB104-041-Q1-E1-E12
<400> 6005

ccctatagtg agtcgtatta attgtatcgc gacttggatg gatgagatcg acgatctaac 60
tgctcatggt cagtcgtcat gaggggtg 87

<210> 6006
<211> 431
<212> DNA
<213> Triticum aestivum
<223> unsure at all n locations
<223> Clone ID: LIB104-041-Q1-E1-E3
<400> 6006

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tattagattc caatttccac taaggaaagg catggaacac tttacaagaa agaaagttaa 120
attaccttgt gaatctatca tgcgagctac ttatgaattg aatgccaaag atggtactac 180
atagatctat tctcactttt atgcctagct aggggcggtta aacgatagcg ctagttggga 240
ggcaacccaa tttgattttt gtttcttgct ttttgcttct gtttagtaat aaatatttca 300
tctagcttct gtttagatat gtttttatgt tttaattagt gtttgtgcca agtagaacct 360
ataggataac ctacggtgat aattaatttg attctgctga naaacagaaa gttttacgcg 420

cacgaaaata a

431

<210> 6007
<211> 408
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-041-Q1-E1-E5

<400> 6007

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gctacgagga ctacgacctc ggctccctct gcgtccacct cgaggaggac caccctacg 120
agccacaccc cgcaccttgc cccatctgct ctgaaaagat tacaagagat atgctaaatc 180
atatcaccat gcatcatggg tacttgttca aggcgcttct aggaggcggg catagtcata 240
ggtaaggaa caccaccact ggcactacaa atatctatgc tgatccactg ctttcacgt 300
ttggcctggg ttttgcaaca tcagatgccg aagaaccatc gaaatcatca gtcccggttc 360
tcgatgatac ttcaattcct aaggaggggc ctctcaacc ttgggaat 408

<210> 6008
<211> 214
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-041-Q1-E1-E6

<400> 6008

atagtgagtc gtattaggaa gtggtggttg tctgcacggg tgaagtcgcc agccactttc 60
acttcgaaga tacagacctt ggggcgatca gcatggagag aatgcgaggc cacctcggct 120
agtagattac tactatagac gtagtacgaca cggacgcaga cttcagtga ttagtgcaac 180
tgccctcaggg tgtatcacgg tgagttgttc aggg 214

<210> 6009
<211> 212
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-041-Q1-E1-E7

<400> 6009

atagtgagtc gtattaaact ccctgcgggc cctgatcccc atgtgtcgag ggtgccaggc 60
 gtcggcggtgc gggaagatc cgggcgcggc cggcgcaacg gcgctgcaga agcacgcggc 120
 gttcatcgac ggtgacaggc agcgcgtcgt caacttcgct gacacgtacg caccctgtcc 180
 ggcccgcggc cttcgagttg ctgcctccac cg 212

<210> 6010
 <211> 380
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-041-Q1-E1-E9
 <400> 6010

gtgagtcgta ttaatagtagt tactgtagct acgatacctg tagttcgctt gccctgctgc 60
 tacttcagta gtcattgctt aataataatg gtctcagtat taaaaaaaaa aaaaaaaaaa 120
 aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 180
 aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 240
 aaaaaaaaaa agggggggccc aaaaaaattt aaagctaaat aagggtgtaca agaaatttaa 300
 aaaccttcaa aaatttcacc aaaattaaaa ttaaaggggc tttttttaaa aagtttttag 360
 ggggaaaaac tgggggttta 380

<210> 6011
 <211> 424
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-041-Q1-E1-F11
 <400> 6011

ggtccagaat tcccggggtcg acgggtatat tattttgaga gtcatttaga acaacatggt 60
 aatttgcttt ggttataaaa ttagtcctaa tatgatgggc atccaagatg ggtataataa 120
 aaactttcat ataaagtgcg ttgaatacta tgagaagttt ggttctttat gattgttttg 180
 agatatgaag atggtgatag cagagtcacg ctagtagagt agttgtgaat tttagagata 240
 cttgtgttaa agtttgtgat tcccgtagca tgcacgatg gtgaaccgtt atgtgatgaa 300
 gttggagctt gatttattta ttgatattt ctttatgagt ggcagtcggg gacgagcgat 360

ggctcttttcc taccaatcta tccccctagg agcttgcgca tagtacttcg tttggataac 420
 taat 424

<210> 6012
 <211> 220
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-041-Q1-E1-F5

<400> 6012

caatacgaat cactataatg actcctatca caaggagggc atgatggaga agatcaagga 60
 caagatcagc ggcgacggcc acagcgacgg caacaatgac ggcgaccgta aaaaaaaaaa 120
 aaaaaaacg gacgctcaag cggatgcact ctaagatcca cgcttacgta accttacatg 180
 ccacctcata tctgtttctaa attgtcacca aaattcatct 220

<210> 6013
 <211> 234
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-041-Q1-E1-F9

<400> 6013

gtgagtcgta ttatgtcaag tagtgacag ataagccaac cactggatgt ggttttcagg 60
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 acgatgggag atgtgccacg ctcttaaaaa aacaaaaaaaa aaaaaaaaaa aaaaaaaaaa 180
 ctcaaaaaaa ataaaaaaaa agaaaaaaaa aaaaacaaaa acaaaacaaa ctct 234

<210> 6014
 <211> 456
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-041-Q1-E1-G12

<400> 6014

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ggataaccaa ttactggag ttgtgcctcc atcactgact aatatctcca gacttcagct 180
 ttttgatgtt ggaaataacg gattcagtg ggttgtccct tcagagttgg gaagattgca 240
 gtatcttaga tggttttgtc tggatgtgaa caagttcgag gcaaacaatg agcgagaatg 300
 gcaattcctt acttctttga caaactgtag caggctgcga ctgatgtcta tagaacaaaa 360
 caggtttctca gggcaattgc caacctcaat atctaactta tccacaaaca tccaagagct 420
 aagtattttg gccacaata tatctggtac tatccc 456

<210> 6015
 <211> 415
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-041-Q1-E1-G5

<400> 6015
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 aggaacaagt cttgggaggt ggaagggtgc aactaccatc caggcaccaa caggtcttat 180
 aattgtctta cgagaggtcg gaaggccttc tgtaaggaga acgagctcaa ggcaggagac 240
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 aaatacgggt cacagatgat cttggctgat ggcggacctg ctggttttgc gaacctaatg 360
 agtatcatga tgaatattgt ggtgacatga taatcaacct gctaggagtt tgtgt 415

<210> 6016
 <211> 391
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-041-Q1-E1-G6

<400> 6016
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 tgggaggttg acggtgtcac cgaccatcca ggcaccagca ggtcttagca ctggcttacg 180
 agaggctgga aggccttctg tagggagaac gagctcaagg catgagagat cagcaccttc 240

aaagtcatca gcatcacgca gtggcatgta gtcatcgacc ggggctacaa atacggttca 300
cagatgatct tggctgatgg cggacctgct ggttttgcga acctaactag tatcatgatg 360
aatagtgtgg tgacctgata agccagctgc c 391

<210> 6017
<211> 183
<212> DNA
<213> Triticum aestivum
<223> Clone ID: LIB104-041-Q1-E1-G8
<400> 6017

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agccggtgtg gtcgctgtgc agcagaggct ccgtgagctc gctggggcaa tcatgaggag 180
gcg 183

<210> 6018
<211> 430
<212> DNA
<213> Triticum aestivum
<223> Clone ID: LIB104-041-Q1-E1-H10
<400> 6018

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agcaaaaata aggcacatag tggcttctct catgataaca agtattatgg tgggtgaaca 180
aattattgcc gagcaattga tagaagagcg cattgttctg agaatatcta ggcaatgatt 240
atgaacataa gcatcacgtc tgtgtaaagt agaccgaaat gattctgcat ctactactat 300
tactccacac atcgaccact ttccagcatg catccagagt attaagttca taagaacaga 360
gtaatgcttt aggaaagatg acatgatgta gagggataaa ctcaagcaat atgatataaa 420
cccatcttt 430

<210> 6019
<211> 413
<212> DNA

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 aagcttttatg gtcatagtat tttgcgaaaa gccaatTTTT cctactacaa aggaatataa 180
 tttatttaac tacaaagttg gttgaaaata ttgagaaggt tctccaact caatcccaaa 240
 ttaacatcaa taaccaaca aattatttaa gtaacgtgat gagatcaata tgataatcca 300
 agaaccagat actcaagatt gtccataacc gggaacacgg ctaatcatga ttagtttgta 360
 cactctgcag aggtttgcgc acttttccca caggactcaa ttaataagac atgacta 417

<210> 6022
 <211> 424
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-042-Q1-E1-A1
 <400> 6022

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 ccagctaagc agcctgcagg agaggatcag ggagaggatg aacgtgaggg aaggcacctc 180
 ctacatgagg agcgccgtgc ggcgcttctt cgaggctggc atgtctgcca agaggatggg 240
 cctcgccgac gacgagcaga tcgtcaagat gagggcctcc cttaccacca gaatgacctc 300
 ctccctgca gatcaagatg atagtccgta gagggcacag accgacgcat acataccata 360
 cataggatga agattgatgt tgggattacc aaaattccta gtactacaca tacatacata 420
 gaag 424

<210> 6023
 <211> 381
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-042-Q1-E1-A6
 <400> 6023

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ttaccacaat catccttgct gtaaacacct tttgggagaa acccacttga ttggaattta 180
 ttagaatact ctatgtgctt cacttatatc ttttgagcta gatagttttt gctctaattgc 240
 ttcacttaaa tcttttagag catggcgatg gcttaatttt gtagaaattg atagtctctc 300
 atgcttcact tatattatct ttagagtgtc ttagaacaga atggtatttg ctatgggtat 360
 aaaattgggc ctagaatgat g 381

<210> 6024
 <211> 396
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-042-Q1-E1-B7
 <400> 6024

acgggggttag gaagaagtgg ggtgggtggtg tcatgggctc caagtcgcaa gcgaagacca 60
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 gttgaaccat atctattcct catccttgag tagtggtcaa gcatactgtg gctgtttggc 180
 tccagttttg gaagtcattt ttgtttgtct gagacatctt ggaaagaaca gtgtaagaat 240
 gaagtatttc tgtttaatgc cagtttagtat ttttgctgaa aaaaataaaa ttcaaataac 300
 aaaaaaggat aaaaatcaga attcccaaaa aaaaaaaaaa aaaaaaaaaa aaaaaagcgg 360
 ccgctctaaa ggatccaagc ttacttaccg gtgcat 396

<210> 6025
 <211> 435
 <212> DNA
 <213> Triticum aestivum
 <223> unsure at all n locations
 <223> Clone ID: LIB104-042-Q1-E1-C7
 <400> 6025

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 tccccctagg agcatgcgcg tagtgccgag gtttttgatg acttgtagat ttttgcaata 180
 agtatgtgag ttctttatgg ctaatgttga gtccatggat tatatgcact ctcacccttc 240
 catccttgct agcctcttcg gtaacgtgca ttaccctttc tcatattgag agttggcgca 300

aacttcgccg gtgcatccaa accccatgat atgatacgct ctatcacaca taagcctcct 360
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ggatatattg ccatg 435

<210> 6026
<211> 242
<212> DNA
<213> Triticum aestivum
<223> Clone ID: LIB104-042-Q1-E1-D12
<400> 6026

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aaataacgct gttgttcaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 120
cgaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaggggccg ctcaaaagga tcaaagctaa 180
cgtacgcgtg aaggcgacgt caaagctctt caagagggtc accaaaattc aattcacggg 240
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<210> 6027
<211> 272
<212> DNA
<213> Triticum aestivum
<223> unsure at all n locations
<223> Clone ID: LIB104-042-Q1-E1-E8
<400> 6027

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gaaggcttta tggccatacg attctcctcc tgttctactc ccgtgagctc gcgggactat 180
tcaactgacc acaccgtaat tatgccctgt cgaatcgtat tctcatctct acatggtgca 240
cgagacgact gtgcatgat caaaatccgg ta 272

<210> 6028
<211> 405
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-042-Q1-E1-F6

<400> 6028

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aattttgggc gaagaccgaa gagcggcggc aactataatt tccagtgcta gcatctgtaa 180
agtatcacca aaatatgcat ctccattcac tattgtaaga tgttctttct cttttctgat 240
tgagatgtat gtagacgaat tttgacgtga ttgttcattc aattcaatat atatgtaatc 300
tatattataa aatatattat atttgtgagc agaggaggtt gcagtttaga tactccctcc 360
attcacaaat ataagatgtt ctaacttttg tctgaattag gtgtt 405

<210> 6029

<211> 414

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-042-Q1-E1-F8

<400> 6029

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atttgtgcct cagatcctag cttacgttca accatggtct gtaagcacat ggtttcttat 180
ctagtttccg tatttatctt ttgatgatgt tggttgttca ctattttgaa acatgaataa 240
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tactatctta tgaaaatgta acaaacacat ttttgaaact ttttaacatt ttaaaaaatg 360
taacgcacat ttttaataata tgacactatt tctattatgc aaatatattt taca 414

<210> 6030

<211> 434

<212> DNA

<213> Triticum aestivum

<223> unsure at all n locations

<223> Clone ID: LIB104-042-Q1-E1-G3

<400> 6030

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 actgcgcgaa aaatcccgag gggatcgcat atttataggt agagggagct angagagtcc 180
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 gttagatggg ttttgggcta ctttgggaagg ggtgttgggc tgcaacaaaa gaggcctttt 300
 acggttacct gggttaaccgt tggagtatca aacgacctcc aaatggcacg aaacttgaca 360
 agcgggtctac cgggtgtata ccaaggccgc ttggcaaacc tcgggtcatt ccgagaaagt 420
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<210> 6031
 <211> 435
 <212> DNA
 <213> Triticum aestivum
 <223> unsure at all n locations
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 <400> 6031

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 aaattgtcat catgatttta attttcaatt ggagtatgct tcacattata gttattttgt 120
 tgagtttgct cccactacta ttcagtggaa aaaatttgct tttgtggaga gtaataaaat 180
 ttctatgctt gtagatcatg aaaagaatgc tttatgtgat agttatattg ttgaattcat 240
 tcatgacgct attgaaaatt attatgaggg aggaatatat gctttagtagga attgcaataa 300
 tttcaagttt cctctctatg ttcttaaaat cgtgaagtta tgcttgtttt gccttcctat 360
 gctagttgat tattgttcnc ataagttttt tgctcacaaa atccctatgc atangaagtg 420
 ggtttagactt aaatg 435

<210> 6032
 <211> 434
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-042-Q1-E1-G7
 <400> 6032

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aaagtacttc acacactttt gtgttttgtc taattgcagg tgtatgggac atttgtacaa 120
 tccacatatg aagatagggg aaaaggagaa gtttaggttc tgttcaaaaa gtcctctcac 180
 gtcacttttg ggccaagaga agatagagtc catgtctctc acgttctgga ttcagattcg 240
 aactgcacag acatacctga ctcaaaacgc caacaacttt ttcatacgga ctccgaattg 300
 ggtgattctt tctttgttgg aaagtagatt tcatactctt tccaacccaa ttggattcac 360
 ctttaaattc gtcgggagcg ttgagatatg gacgaaacaa tctgacgctg cagcagaatc 420
 tgagtcaaac aaca 434

<210> 6033
 <211> 447
 <212> DNA
 <213> Triticum aestivum

<223> unsure at all n locations
 <223> Clone ID: LIB104-042-Q1-E1-H7

<400> 6033

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 cacacagtcg attacaagga agaagatcta catatccgta ttgccaagct ttccttcac 180
 gccaaaggaga gtcccatccg gacacgggac gaagtcttca atcttgtatc ttcatagtcc 240
 aacagtccgg ccaatggata tagtccgact gtccggagac cccctaatac aggactccct 300
 cggtagcccc tgaaccaggc ttcaatgacg atgagtccgg cgcgagatt tgtctttggc 360
 attgcaaggt gggttcttcc tctgaatact ccatagaaga ttttgaacac aaggatagtg 420
 tccggctcag canaacaagt tcacata 447

<210> 6034
 <211> 451
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-042-Q1-E1-H8

<400> 6034

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tttttctcgggt ttccttcata acatttttctt ttcttcacaaa acttttcttggt tgcaattcac 180
 ataagctctt gcacttctag tactcaacaa atcgatgatc cttaagcgtg tgtcctggca 240
 gggttcggtaa atgtagacaa gacccggaac accttcgggt caatggccaa tagcagaact 300
 gtggacatcc atattgtccc ccctacactt acacgaatta ttatcgagtg aacctattgt 360
 tctgacacac aattcccttt atttcacaat ataacataat caaaggtgat acttattggt 420
 atccatgtga agcaactcat gatcaccata c 451

<210> 6035
 <211> 345
 <212> DNA
 <213> Triticum aestivum

 <223> unsure at all n locations
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 <400> 6035

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 aacagaagga cattcttcaa attgtttttg gtttaaaaaa tgttcaccat ttaatatctc 120
 aatatttcca aaaaggtatc agaatgtttc aaaaaaatgg atgcatttaa aaatattctt 180
 attttaaaaa aaatctaatt tcttttaaaa agcatgtatt aaaaaatgtc agtcttaaaa 240
 aaccatttta taaaaaagaa aatattaata tattttcaag aagtanaaaa taaaatcaat 300
 gttgcgtaat tgcacacaca aagaagattt tnggtttttt tggcc 345

<210> 6036
 <211> 402
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: LIB104-043-Q1-E1-A6

 <400> 6036

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 ccgatggtga cggcttcacg gacttcagcg agttcatctc cttctgcaac gccaaaccgg 180
 gggtcatgaa ggacgtcgcc aaggtcttct gaatcagttc atttcacctc agccgtccga 240

tccaggagcc gatccatcta cgtacggctt cgtatatcaa tttcatgcaa ctacctactc 300
 cggtcccgat tcagcctcag cttcacctga ggccggccct aattttgttt gatcaatttt 360
 tttgctacta gtagtaacta gtgatgatca ctgttgacc at 402

<210> 6037
 <211> 415
 <212> DNA
 <213> Triticum aestivum
 <223> unsure at all n locations
 <223> Clone ID: LIB104-043-Q1-E1-A8
 <400> 6037

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 agaactgaat aaaacagctt ctgggaccat ggttgttttg catcctctga aggttgtaat 180
 aactaatttg gaagatggaa aagtcataga ccttgatgga aaaaagtggc ctgatgctcc 240
 tgctgatgaa gcttcgtcct actacaaggt tcctttctca aaaaccgtct acattgaaaa 300
 aactgatttt cgcgtgaagg actccaaaga ttactatgga ttggctcctg ntaaatctgc 360
 cctgctgagg tatgcattcc cgataaaatg cacagagggtt atttatggtg ataata 415

<210> 6038
 <211> 406
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-043-Q1-E1-B6
 <400> 6038

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 gggagaggaa tgcgacgaga gctcgatgta gcatgcacgg accagagaga gccaaagggga 120
 cacggggacg aagaagatac aggagggaaa cgacggcccg ctacagcgcg ttcgtgggag 180
 cacggtgacg agcgcacagc aggaggcttc cagaggggga gatggctcta ggaggacggt 240
 gacgacgccg gaaacatgct agacatgggc atacggtgag gggatgagtg catagatggg 300
 gaggaggaga cagaagcgcc agagcgcgcg ggtgacatgc caaaatggtg gtcaccgcgt 360
 ggacacgaag ctaacccatg ctctgatcgg acaaatcatg tctggg 406

<210> 6039
 <211> 374
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: LIB104-043-Q1-E1-B7

 <400> 6039

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 aacacggtgt ctgcaaakat ccccatggcc cctctcttcg ggctactcaa gccaacggc 180
 aagatggtca tggtcggcct ccagagaag cctatcgagg tccctccctt tgctctggtt 240
 gccaagaaca agaccctggc cgggagcttc atcggcggca tgagggacac ccaggagatg 300
 ctggacctcg cggcgaagca tgggtgtgacg gcagacatcg aggtgatcgg cgccgagtac 360
 gtgaacacgg ccat 374

<210> 6040
 <211> 366
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: LIB104-043-Q1-E1-F9

 <400> 6040

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 ccatatagca ctctcgatgc aacgaaagt acgtccctta cagttttcag catcatgacc 120
 gcgtgccaga ttttgacgaa gggcagtggt tgcattgact cgcaatgtga cattacattc 180
 acatctgtcc caaaaggatc aacatcatga ccatcataat cgccgtgctc tccgagtaag 240
 ttgtcggcag gaacaaaccg aacctcgcaa tcataaaaaa agcggccgcc ccataggatc 300
 caaccttacg tcaccgagca tgtgaagtca cagctcttca aaagggtcac ctaaattcca 360
 ttcattg 366

<210> 6041
 <211> 454
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-044-Q1-E1-A10

<400> 6041

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gctaggcaat attgctctag tgcttcaacta ttatcttttt agagcacgac agtgggttta 120
ttttatagaa attgttgatc tctcatgctt cacttatatt attttgagag tcttctagaa 180
cagcatggta atttgctttg gttataaaat tagtcctaata ataatgggca tccaagatag 240
gtataaaatt agtcctaatt ttcataataa gtgcattgaa tactatgaga agtttgatac 300
tttatgattg gtttgaggta tgaagatggg gatattagag acatgccagt ggagttattg 360
tgaatttgag agatacttgt ggtaaagttt gtgattcctg tagcatgcac gtatggtgaa 420
ccgttatgtg atgaagttgg agcatgattt attt 454

<210> 6042

<211> 393

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-044-Q1-E1-A8

<400> 6042

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gaaggtgtgt gcgcgtgttg tgagcgtctg cgtctgcatt gtgtttctaa agaaaaaaaa 180
aatctggctg ccgatcgacg ggtgaagaaa tgccaagaca tcatcttggt gcaaataccc 240
caccctactc tctgcgagat tcgctaagtt cgttgtgcat tacatactgg aatgcgtagg 300
ttacctagtt acgatcgac tagaacaaca tttgtgtact gagtattcgg acaaagtttg 360
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<210> 6043

<211> 429

<212> DNA

<213> Triticum aestivum

<223> unsure at all n locations

<223> Clone ID: LIB104-044-Q1-E1-B10

<400> 6043

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gacgcgtgcc atgcaagtgt ccgttggttg ttgggaaaag catacgcatt aatgcatgca 120
tgggatgcac acaaacttta aatgcgtgat cagtgggtcat gtttatctta ctgtatgtca 180
caacgtgtac tgtagaaatt cattgccttt tgtttttcac atgggtcggc catggctata 240
tttctatgaa agcgttgaaa tgtgatttct ttttgtatca cacggctagg caatgatgca 300
tacacgaatg gtaattcact ggcatgaaga catgggtact gccactagg actacacgtg 360
tcgaagttaa gtctgtcatt ctgcangggg caacgggtgct cagatcaaatt gttcatgtca 420
ccatgacgt 429

<210> 6044

<211> 435

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-044-Q1-E1-B12

<400> 6044

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catagagagg agaagcagag cctgagagtc agtcagcgaa gcttgccatt cgaccgtcca 120
tggaagcact ctgagattca acctaacagt gttggggcct tagcagtgtc ttagctttct 180
aatttccacc aatccatccg tcagtccctt ccggtgtaat gattcttttg aacaagaaaag 240
ggaacccggc cgtgcaacag tagtagctta ggctagctct gcgtatcatc atcatcatct 300
cctttcttct tgtgctaagc ttccaagatc gatcggtaca tagcgcgga cccttcctat 360
ccattctccc tcaaagaga ggggattgca ttgaagatgt gtaatagtat catttgtatt 420
gccattatat atata 435

<210> 6045

<211> 404

<212> DNA

<213> Triticum aestivum

<223> unsure at all n locations

<223> Clone ID: LIB104-044-Q1-E1-B2

<400> 6045

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 aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaagaaaa aaaaaaaaaa aaaaaaaaaa 120
 aaaaaagggg cgcgccaaaa ggatcaaagc ttacttacct gtgaatgcaa cttcaaacc 180
 cttcaaaagg gtcacaaaaa ttcaattcac gggccgctgt ttaaaaacgt cttaacggga 240
 aaaaccctgg ggttacaaaa cttaatcccc ttgaaaaaaa tccccctttc gcaaactggc 300
 gtaataccaa aaaggccgcg accattcgcc cttccaaaaa tttgccacc ctaaattggca 360
 aatggaaccc cccctgtacc ggcgaataaa ccccgccggt tttg 404

<210> 6046
 <211> 433
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-044-Q1-E1-B6
 <400> 6046

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 ataaacaaaa gaaaagaaat aaatcaagaa gatcatatac taatcttatg gtaggtgatg 180
 gcaccacata aggaaaagta taagtagaaa attttattag agattgacaa acatagcatt 240
 agtcaatgat gcaactcatg aaagaattaa taagggaaga gaatattcac atacaaatag 300
 actatcctac aaatcttttg tgattgtgag ccccatcag aatattatat gccagaattg 360
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<210> 6047
 <211> 438
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-044-Q1-E1-B7
 <400> 6047

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tctaagtga gcatgagaga tcaagtttct ttaaaacaaa tccaccaccg tgctctaaaa 180
gatctaagtg aagtactagg gcagaaatta tcacgctcaa aaagatataa gtgaagcact 240
atgagcaaat tagcaagctc aaaagatata aggaagcaca tagagtattc tatcaaattt 300
caaatcatgt atgggtctct caaaaagttg tgtacagcaa ggatgattgt ggtaaactaa 360
caagcaaaga cacaaataat acaaacgct ccaagcaaaa cacatatcat gtttgtgaat 420
aaaaatatag ctccaagt 438

<210> 6048
<211> 430
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-044-Q1-E1-C6

<400> 6048

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ttacagtttt tcgtagttta gatcgagtct gttcttcata cctacagtcc acgaaaaagc 180
cacagaaaaa atttaggggt agttcatcat atccgaacca atctgagcct ttgcatagtc 240
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agagtctagt ctttttagagt ttcgagttct ggtcataagt tgtcacgctg ccgccgcacc 360
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caatccgtgt 430

<210> 6049
<211> 452
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-044-Q1-E1-C8

<400> 6049

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tcgccgaagc cgctgccact tcacgtcccc ctaccggaca agcagagtaa aagctcgatt 180

gccattatta acctagctag ctgcaaagac gaaggagggt tgttgatgta tcctatttgg 240
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attagtgtat tacgctactt gtcagcgatc gagtctgtct taactcttga gtagtagtaa 360
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<210> 6050
<211> 403
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-044-Q1-E1-D11

<400> 6050

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ttcgccagtc cttagagagc catatttget ttaatcctca catggttaca accataatag 180
aatgcaccct cagcaatatg tttcatcaca ttgcattaat taaccaggca attactatt 240
tacaacattt tatgttccag tcattagtca atcaccatat tgcacattat aacacactcc 300
tatgacaatg tcaactagtt acacatacca tacgttcgta acaccttgga aatccaacaa 360
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<210> 6051
<211> 185
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-044-Q1-E1-D4

<400> 6051

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aaaaaaaaaa aaaaaaacaa aaagataaaa aaaaaaaaaa agcggccgcc ctacaggatc 120
caggcttact tacgcgtgca tgctacatca tatctcttct aaattgtcac ctaaattcat 180
ttcaa 185

<210> 6052
 <211> 409
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-044-Q1-E1-D6

<400> 6052

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cacagtgctt acccatatac tgcattgtgt atcgaaaggg atgatgattg tcgttcgac 180
tgggagcatc caacggtgta tacgtacgat ccgtgggggt tgggttctcg ccaatcagaa 240
cgcacgaccc agatcacgcg cgcagcagga gggggacatc ggccacgggt ttgtaggcac 300
acggctttcg tgagtgaacc gtgtgctatt tgaaaacatt ttatgagaag aatctcggtt 360
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<210> 6053
 <211> 324
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-044-Q1-E1-E12

<400> 6053

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tctgacatat ggatctagga ggaagggtgt aggacacagg cagctggaga tccatgggtgt 180
tgagctcact gtaattaaaa tggctctctc cccgcctgcg gtgttgatg tgatgtggta 240
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taataagagt tgcctctgat tctg 324
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<210> 6054
 <211> 425
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-044-Q1-E1-E2

<400> 6054

taccgggtccg aacattcccc ggtgccccggg cctgttacac tgtactccct ccgtccggaa 60
 atacttgtca tcaaaatgaa tagaagggga tgtatctaga gtatttccgg acggagggag 120
 tacatgtcaa catgttgtgt gatattctca gctaagtctg gagtgacagc ggttcctggg 180
 gagatggata ggacgactgg tctctcaagc tctttcagga tctgcaaaac gcaatgtgaa 240
 tttcccatga attgatctca acagattgcc aattgtgatg tagtagctaa ttctagaatg 300
 gagggctaca ttaattaatt caaacctctg aaacggccac gatttccttc gggctataat 360
 ccgtgccaaa gatgcaatcc aactttactg caaattgaac aatttgggtgc atcatgttac 420
 cgttg 425

<210> 6055
 <211> 403
 <212> DNA
 <213> Triticum aestivum
 <223> unsure at all n locations
 <223> Clone ID: LIB104-044-Q1-E1-E5
 <400> 6055

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 agccccgggct gccgggattt gagtcagact agcagtagcg cgttttgccg aagacgtgct 120
 atagcgagga gagctatagc gtgttcagc gaaatgcact acagctattc ctttctgttt 180
 gattttttctt ttgttttcgt tacagtttta tttgtttcat ttgcctttt gataggtctt 240
 tcatttgcag ttacttttct acttattttg cgatttattg gcttgggcat agcagtaggg 300
 ctctacagga tgagcgtgct gcgagagagt ggtagcagt anggggcttc tgggtgaagc 360
 gctaggacgg agtcctagcc taccggcatg agtgagggaa ttt 403

<210> 6056
 <211> 403
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-044-Q1-E1-E7
 <400> 6056

gtaccgggtcc agcattcccc ggtcgacggg gaggcagaga cagagaaccg cacagcggcg 60

gaaagactgc ctggtgccgg agaagatgat ggaccggact caaacaagac aacgtcggaa 120
gcagctacct cacggtagca ggcgactgat tgtctgctgc caacttggca tgtgactgaa 180
catgtataaa ataggattat gagttgacaa aggttcaccg cacaggggtgt atactggttc 240
attctacaat tattttggta aaggtttaat gatcttttgc taaaaaaaaa aaaaaaaaaa 300
aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aacaaaaaaaa aaaaaaaaaa aaacaaaaaa 360
aaaacccaaa aaaaaaccca acaaacgaaa aaaaaagcgg ccc 403

<210> 6057
<211> 438
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-044-Q1-E1-E8

<400> 6057

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acactaacgg tttggatatt tgatctgagg ggcctctggc ccgatagcac taaccatcac 120
gtgggcatag tatgggcatt ctgcgtcgta tgcacgacc gaagcttaat agacgtcatg 180
cgactgagcg ggcgcgcgcg ggttggactt gtaagctccc gccttttttt aaggaggtag 240
ctagggtctgc tcaccggccg cccacgcaac gtgcaggagt tccccggggc atggcccatg 300
acccctgggg gcataggttt agtccggcgt gcttgacctc tctattaagt ctaggtcggg 360
ttgcggcgta ttgtttggac gaggccgggc atgaccagg aaagtgtgtc cgaccggagt 420
taatcgagcg tgggtgggt 438

<210> 6058
<211> 440
<212> DNA
<213> Triticum aestivum

<223> unsure at all n locations
<223> Clone ID: LIB104-044-Q1-E1-G11

<400> 6058

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ggattaggcg gtccttggac agccggacta taccctttgg ccggactgtt ggactatgaa 180

gatacaagat tgaagatttt gtcccggtgc cgggtgggac tctcctttgc atggaaggca 240
agcttggcaa ttccgatata tagatcacct cccttgtaac cgactttgtg taaccctagc 300
cccctccagt gtctatataa accggagggt ttagtccgta ggacaacgaa aatcataatc 360
ataggctggc ttctanggtt tagcctctac gatctcgtgg tagattaact cttgtaatac 420
tcatatcatc aagatcaatc 440

<210> 6059
<211> 245
<212> DNA
<213> Triticum aestivum
<223> Clone ID: LIB104-044-Q1-E1-G5
<400> 6059

taccggtcca gaattcccgg gtcgagcggg aaatacacac ccaccctacc taaattcagg 60
tagaatacaa tacatttgggt attggggcat gcttgtatcg atgcctatgc aagcgttgta 120
acctgtaaac cgacatactg aaaatgcgag gaacgttaag ttaagaagga aaaaaaaaaa 180
gaaaaaaaaa aagggcagag acgcgaaaag agaaaaagca agaagaaacg atacatgcaa 240
cgtca 245

<210> 6060
<211> 370
<212> DNA
<213> Triticum aestivum
<223> Clone ID: LIB104-044-Q1-E1-G6
<400> 6060

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aacgtgaaca tcaagcgttg ctgaatatgt gcctgcggct gctgttgatg gtagtagcca 120
cacattataa ttatatggga tggtccattg tcttgttcac caggttatga ggctttggcc 180
agggtttttag ctgcagtttc gattttcatt gacaaagaaa aaaaaaaaaa aagaaaagac 240
gaaacagaag aaaaagtaga aaaggaaaac gggagaaaga aaaaaaaaaa cggccgctct 300
aaaggatcca accttactta gccttggatg cgacgtcaga cctcttcaat agtttgacct 360
aaattcagtt 370

<210> 6061
 <211> 445
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: LIB104-044-Q1-E1-H11

 <400> 6061

aattcccggtg tcgacgggtg gacgccggtc gtcctcccat agaagcaatt atgtttaatc 60
 aagaagacat aatgcgttta caatccttag atcatgttg ttataatgaa aatcttagaa 120
 agagggttcc taccgatatt ctagttgata gaatttctga acttaatgat aattttgata 180
 ttcaaaacag cgggttgggt tttcctcttg aacaaaggct catgactttt tgccaaatga 240
 atgcgtacaa tgatgagttg gttgtacaat atgaagggcc aaaggaggaa acaattcatc 300
 ccgagcttga tcatggggga cttttgtcca ttaaattttg cccttttgat tactttttct 360
 tatctcaaaa aaaacttgct gctgaacgta gggagtaga gatgagtttt caagattttc 420
 cctatcatta ttatggcaat accta 445

<210> 6062
 <211> 253
 <212> DNA
 <213> Triticum aestivum

 <223> unsure at all n locations
 <223> Clone ID: LIB104-044-Q1-E1-H3

 <400> 6062

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 atacctgagg gtccccggga tgctgtagg tgggcccggg aaggccggat ctgccaacac 120
 aacggaaaca aggaaaaagg ggcaaaaaaa aaaaaaaaaa aaaaaaaaaa aagcggccgc 180
 tcaaaggat caaagcttac ttacgcgtaa atgaaacttc atacctcttc aaaagtgtca 240
 ccaaaattca ttt 253

<210> 6063
 <211> 442
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-044-Q1-E1-H9

<400> 6063

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ggatatctcaa tacctagttc aatcttgtta ccggcaagta tctttaatcg ttctgtaatg 120
catcatccca caactaactc attagtcaca ttgcttgcaa ggcttatagt gatgtgcatt 180
actgagaggg cccagcgata cctcttcgat aatcggagtg acaaactcta atctcgatct 240
atgccaaactc aacaaacacc atcggagaca cctgtagagc atctttataa tcacctagtt 300
atgttgtgtc gtttgataga acactaagtg ttcctccgat attcgggagt tgcataatct 360
catagtcata ggaacatgta taagttatga ataaagcaat atcaataaac taaacgatca 420
tagtgctaag ctaacgcact ac 442

<210> 6064

<211> 160

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-045-Q1-E1-G1

<400> 6064

attgcatgca cacatatata cgaccaataa aaaaaaatg aatatttttag aaatataaaa 60
taaaataaga aataaaaaag cggtgctct agaggttcca agcttacgta ctcttgggtg 120
ggacgtcata gttcttctat attttcactt aatttcaatt 160

<210> 6065

<211> 376

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-046-Q1-E1-A11

<400> 6065

ggctgaccac tgggcgcta ctaacaccaa caggcgcacc tgacgctata ccgtgtgttt 60
tcaatcaaga agcctggaaa aaacgtgct gcaaaaggca aaacaacggc taggggggtg 120
acttgtagac tgggatgtat cccaacacgt ggagccgagg acaatgcgta cgtgcgtgca 180
cacacacatg tgctgtacat gtgatgaata ctgaataatc gagtcagatg accgcctgtg 240

gtcgtcgtct cgaccgcctc gtacatgtag acgttgcaca acacctgtac atgtgattga 300
 ataaccgaaa aaaaagaaaa taaaaaaaaa aaaaaaaaaa aaaaaaaaaa gcggccgctc 360
 tagaggatcc aagctt 376

<210> 6066
 <211> 267
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-046-Q1-E1-C2
 <400> 6066

tgcgactgcg tccgcgattg cgactgggaa atgagcccgg atgtccgcag tcagattaca 60
 tcaactcaagc ggcatgtact cacaacacag caggttcaaa ggattgaaga ggaactggga 120
 gatgtactcc gccgtccagt cttcaatagc aagctgatgc aacctgagat tgttgattata 180
 agaaaaagcg gccgctctac aggatcaacc ttacttacgc atgcatgcaa catcataatt 240
 cttcgagatc gtcactcaaa ttcaatt 267

<210> 6067
 <211> 141
 <212> DNA
 <213> Triticum aestivum
 <223> unsure at all n locations
 <223> Clone ID: LIB104-046-Q1-E1-D3
 <400> 6067

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 gcggtcccaa aaggttcaag cctaacttac cttgaaggc aagttaaaac tcctccaaaa 120
 gggccaccaa atttaattta a 141

<210> 6068
 <211> 441
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-046-Q1-E1-E11
 <400> 6068

cgggtccaaa ttccggggac gacggggcaa catgactcgc atcctgcact gcgacaagga 60

actgccgccg gaggcctca atatgtacat ctcccaaagc tgcctcagcc tggcaccatg 120
 tacacagggtg gattgtcaca gggcatgttg gatcagatgc gtccatatgc acccgtgacc 180
 caggccaaat ccgggtccaa ctgccggcgg agtctccaag tcgggtccat cgccatgacc 240
 tgctactccc atgtaccgt ccctgtcacc catgccgcct gaaccatgcc ccactgatgc 300
 cacctaatgc gcccaagaca aagccgatgc cgccgtgccc gccactagct gtatccgcgt 360
 cgagcaacac cagcaacaac tgctgggtgt acgtgacgac gtctatgcac acatacttcc 420
 aagtgaacac gccatatattt c 441

<210> 6069
 <211> 424
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-046-Q1-E1-E9
 <400> 6069

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 ccggtgggca tattttcatc agggaatcgt gcttccacca gtctggggat tccaagagga 120
 aagtgaaccc gacgcactac cgggagccga ggttctacac caagggtgtt aaggaatgcc 180
 acttctatga ccaagagggg aattcctttg agctttctct ggtaacttcc aagtgcattg 240
 gagcttatgt gaaaagcaag aagaaccaga accagatatg ttggctgtgg gagaaggcca 300
 agtgcacaga agacaaaggc ttccagagat tcctggacaa tgtgcagtac aaatccactg 360
 gaatcttgcg ttatgagcgc gtatttgggg agggttatgt tagcaccggt ggattcgaga 420
 ccac 424

<210> 6070
 <211> 383
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-046-Q1-E1-F5
 <400> 6070

gggtcgacgg ggcattccat ctttcgtctt cgtctatcgg taactttact tgaggctata 60
 tttttattca ccacatgata tgtgttttgc ttggagcgtc ttgtatgatt tgagtctttg 120

cttttttagtt taccacaatc atccttgctg tacacacctt ttgggagaga cacgcatgaa 180
 tcatgattta ttagaatact ctatgtgctt cacttatatt ttttgagcta ggcaatatcg 240
 ctctagtgtc tcaacttatat ctttttatag cacggcgggtg gttttatttt atagaaattg 300
 ttgaactctc atgcttcact tatatcattt tgagagtctt ttacaatatc atggtaattt 360
 gcttgggtta aaagactaat cct 383

<210> 6071
 <211> 151
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-046-Q1-E1-G7
 <400> 6071

gggtcgacgg ggaccacaaa acggcggagg agcacaagaa gaaggacggg gagcacacga 60
 acgacggcta tgcacactga gggcatcatg gataagatca tggacaacat cagcggctac 120
 cgccacgggt acggcaagaa ggactgcgac c 151

<210> 6072
 <211> 176
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-046-Q1-E1-H2
 <400> 6072

atcactttgc cctcaattag aaagaaattt ccggttaaatt caagttccta aaaaaaaagc 60
 caaaaaaaaa aaaaaaaaaa aaaaaaaaaa acgggccgcc caaaaggatc aaacctaacg 120
 taccctgtaa ggcaacgtca aacccttca aaagggtcac caaaattcaa ttcattg 176

<210> 6073
 <211> 444
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-046-Q1-E1-H5
 <400> 6073

attcacgggt cgactgcgga gttgatctcg gatgtgtaca gaataattcc tcgctatcag 60

gtggtaataa cgcaccggaa cggacgctgt tcttgatgcg cggaatggca aggcaaagca 120
 ttctttcacc gagcaatggg gattgacgac ttgattacag acaagataga ttgggcacat 180
 tcttacctgt aaagataatt tgccaaataa agccgtttat aagctttgcc actttgataa 240
 tctcttgtag tgacacaatt tgaaagaatt cctttgaaaa aaaaaaaaaat aaaaaaata 300
 aaaaaaatg aaccttaagc aaaactacgt aaaaaaagt tagaaccccc tcatgaagat 360
 caattataaa aattatctta gaatgccaaag aaatggctgc tacaattggg acaccaaata 420
 ctcggtaaac aaaaaggggg gggc 444

<210> 6074
 <211> 467
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-046-Q1-E1-H7
 <400> 6074

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 gcacgcattt gacgtgcact acatcaacta cgattgatgt caccgtagat ctgtaacatg 120
 aatttgggtc agatataagg gggaagtgc aatatgaatc aataccaacc ttgtatactt 180
 gttaccctta ttctgattgc atgatgggtc aatgcttagt gcattcccaa taacatgcaa 240
 cgtatggtga accgttatgt gatgaagtcg gagcatgatt tatttattga ttgccttcct 300
 tatgagtggc ggtcggggac gagcaatggg cttttcctac caatctatcc ccctaagagc 360
 atgcgcgtaa tactttgttt cgataactaa aagatttttg caataagtat gtgagttctt 420
 tatgactaaa gttaagtcca tggattatat ttaaacacac cttcca 467

<210> 6075
 <211> 399
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-047-Q1-E1-A1
 <400> 6075

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aagtttagcta tagcgcatte tggtatacac gctactgeta ctcttttctc ttttttccct 180
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 tctcaattac ctttctatnt gctttcaatt taatnttata tccttttagca gtagcgagtt 300
 tagaagaaaa cacgttgcta caaaggacgt agcggtagcg cggttcaata tggatcgcta 360
 ctactatgtg tagcctatcg gctaagccgt gggaataat 399

<210> 6076
 <211> 427
 <212> DNA
 <213> Triticum aestivum

<223> unsure at all n locations
 <223> Clone ID: LIB104-047-Q1-E1-A2

<400> 6076

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 gtgggttaaac ttatttagta tagcatttat ttgaggcact tgggcctaatt attgaaatat 180
 taagatagag atttaaatta tgtactcttg ttttgtaaac actatcttgc aattgcttcg 240
 tggaccatgg gagggatgat tcctagaagc catgttttcc aataatttca acagctctgt 300
 gttaagtagc ttagttatta atttttatnt ctgtagtata atcctgggag gttgctggac 360
 caggaaacat aatctcatcg gtaatttcct aaggaaaata ttaggggttc tctgttgtga 420
 attttttt 427

<210> 6077
 <211> 237
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-047-Q1-E1-A3

<400> 6077

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 gtgaaaaaat tttcaaaata tcaaattgaa aaaaatcggc cgctctaaag gtttcaagct 180

tactttcccg tgcattgacgac tttttacctc ttctaaagtg tcccctaatt tcaattt 237

<210> 6078

<211> 393

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-047-Q1-E1-A8

<400> 6078

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tgaactttgt tgtgtacacg gcattcgcca agaattacac ggtgaagaaa gtcgagcccc 120

ggtgaacacg gtttgcgtgc ggtcacaggc gtacgttttt catcctcttt gttgtgtatg 180

taccgtctac aaaaccagtt cgatgtaatt aaatatcgcc caaaattcct gtagctgtgt 240

tcatttgaat aaatataaaa ggtgcctttg gaacagaaaa aaaaataaag tcacaataaa 300

aaaaataaaaa aaaaaaatac aatagaacgt aacatgcaaa aaaaaaactg cacacactaa 360

caaaaaaggg gccgccctaa aggttccaac ctt 393

<210> 6079

<211> 436

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-047-Q1-E1-B12

<400> 6079

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caccattggc gctttccgtg ggaagtgata gcaatggaag cggagctgta gctcttctga 120

aaattgcaag gatcttttca caaatctatt caagccttaa gaccagaagc aagtttaatc 180

ttctcttttg attaacatct ggctgaccct acaattaaaa tggaactagc aaggttatca 240

atTTTTTTta cagcggcttg aagttttgac caacatgtgc gtgatattat tgactatgca 300

atttacttaa gtatcattag ttcttagagc aatgatctct ggatgcatgt atcaaagcct 360

ccagagaagc cttacatcaa gcaaactctt gaggatTTTT cggatgtctc caaggaaatg 420

ggcatttcag tcgcac 436

<210> 6080

<211> 420
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: LIB104-047-Q1-E1-B7

 <400> 6080

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 tgatgaccac ttcaaggaac cttctagtct tgaatgtgta agattagtga accaaatagc 180
 cgaagaaaac tgggaaagat tcgcgtcaga agagatgaaa acgttgcaag ggcacctcct 240
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 cttccccgat gttggcggca agatctcgga cgctccgacc tcgcttctctg attcgctgac 360
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<210> 6081
 <211> 425
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: LIB104-047-Q1-E1-B8

 <400> 6081

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 caaggccgac gaggaatgct ttgaaacctg ctacaaggag ctgaccaatg gcggcgaaaa 180
 actcgacaat ttgtgcacca gcatagaggg ctcgagcagc atcggcatgg ctcagctccc 240
 cgaaatccgc agcttcatca aggagaacaa cggggcgcat gccagtgga attgcatag 300
 gtgtcgccct gcaaataaca agaagacacc cgacgatgct tccaagaaga acgatgccga 360
 gaaggccatg gctgtcctgg atgtgctcgt taacaaagt accaagtaca gaaaaacaaa 420
 ctctc 425

<210> 6082
 <211> 436
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-047-Q1-E1-C10

<400> 6082

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gtgtcacat gttcttgga tgcccatcac cgtccacatg tacaccaagg gcaccgataa 180
ccccaggatc atagcagagt atggccagga gtacggcaag gacaaccgg tccgtgttct 240
atacgacggt tatgggcact acgacgcgt gcagccatct cttgtaagaa cacaaccaag 300
actgagagga gcgtagctaa ccggagaatg gtgcgctatg taagcttctt ctactacttc 360
tctagggcag ccgcataaat tccgacatct gctgcaactt ggtttcgttc gagttggcag 420
atcacggtat agcaca 436

<210> 6083

<211> 439

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-047-Q1-E1-C11

<400> 6083

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agtgaattgt tccagctttt caatctgcgc gagctcgaca aatctatcat cagttgctac 180
gttctgtaag tgatttattt ctaccccatc tcgttcatat tgcctgcact atatatatgt 240
cctaactata ttgttgtgtc cgctattata catgcagaat gaagattaag gaatgcagag 300
taaggaacat ccatgatgtt gggttcattg acccacacat cgttaatgaa tatgtgttgg 360
agcatcacc cgccgacatg gaggcagacc tgtggcagtt tcttaciaaag caggaactca 420
aaagtgatat tctatttcc 439

<210> 6084

<211> 203

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-047-Q1-E1-C3

<400> 6084

gtgagtcgta ctacacgata cacgcttacg aacacacgaa tgacgagcta gcacactcat 60
cgcatgtgtc accaagatca cagttcacat cacctcctac tgcaacaggg aacttggcga 120
caacgctaac gatggacaac attaatacacc atgccacaca tcaccgctac ggcaacacgg 180
gccacaactg ccatgccacc acc 203

<210> 6085

<211> 406

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-047-Q1-E1-C5

<400> 6085

aattccccggg tcgacgggtg aggtgatacg atcttgatat atcacgagct ttgctattat 60
agttggatct tatgtttctc ctccccctct actctcttgt aatgaaatga gtttccccctt 120
tgaagttatc ttattcgatt gagtctttaa agatttgaga aactttaatg tatgtcttgc 180
cgtgcgtatc tgtggtgaca atgggatacc acgtgattca cttgatgtat gttttggtga 240
tcaacttgcg ggttccgaca atgaaccaat gcatagggtt ggcatatgtt ttcgtcatga 300
ttctcctgta ggaactttgg ggcactcttt gaggttctat gtgttggttg aatagatgaa 360
tctgagattg tgtgacgcat atcgtataat catacccagg gatact 406

<210> 6086

<211> 437

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-047-Q1-E1-D10

<400> 6086

taccggtcaa caattccccg gtcgacggga tgtgtgagat ctggctatct agttgtttat 60
ccttagtagc ctctcttacc gggaaatgtc tcctagtgtt tccactgagc catggtagct 120
tgctactgct ccggaacact taggctggcc ggcatgtgtc cttcttcgtt cctgtgtctg 180
tcccttcggg gaaatgtcac gcgatgaata ccggagtcct gttagcccg c tacagcccg 240
ttcaccggag tcctgctagc ccagtgtctac agtctggatt cactcgctga tgaccgacac 300

gttcgatgct gggtcacatgga tgctgtccc tgtaagttag tgccactttg ggttcacgac 360
tagccatgtc agcccggtt cttgtcata tggatgctag cgacactatc atatacatga 420
gccaaaaggc gcaaacg 437

<210> 6087
<211> 418
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-047-Q1-E1-D11

<400> 6087

taccggtcta caattcccg ggcgacgtgg ggagcaacgg cggcaagtgg gactgggtgg 60
atggtgttcc tggatatggt gatggtgtat accgcggtt tgtgttcgac ggtgggttca 120
cagcaatgcc gtgaccgag aggtcatgg aaaaagatat ccagactgg tgcgtgacta 180
aatgcgtca actaacgatt ttccattgat ctgggacatc catctactgc tgaagaggaa 240
ctgatatctc catacatatt attacatcg tacttggttc ttagcttgat gaaatacttc 300
cagttgttgt acttaatgaa catgaaatga tctgttggtt cgttggttca gacattgaaa 360
tgatgcagac tggtatatgt ttagacgata aaatgttaaa tgcgcattt ataggaac 418

<210> 6088
<211> 416
<212> DNA
<213> Triticum aestivum

<223> unsure at all n locations
<223> Clone ID: LIB104-047-Q1-E1-D12

<400> 6088

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gaactccag gaggaggacc ttgccgcttg cgaggagaag ctgccgtga cactccgtga 120
caaggacgag gaggccagg agctcgatc gcagcggatc cgggaactgg aggagaggca 180
cgaggagggc ctcaatgctt aggccaggc ccatgccggc aaggtggacg agctggaggc 240
agagcgtgac gggctgaaga ggcaggtcca ggagctaacg gggtagaggg acgcgcccaa 300
gggtgctttg gtcacgcat aggccgtagt cctcgagaag gccgcgtac tctccatggc 360
caacgagtcc atcaaggaca tgaacctgaa gctgganggc attgaaggga cactct 416

<210> 6089
 <211> 401
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-047-Q1-E1-D2
 <400> 6089

attcccggga cgacgggggg gcctagccgg agttgacgat tccggcgagg cagggccgtt 60
 ccagcagctc caacagcacc atcgcgcca gtggagcacc acgaacaccc aggagaggtc 120
 gaaggaagat gaggggccc ggaggaagca gaatgccgag gcgcggtcgg cggcgagctc 180
 cagagcaaga cggcggccag agggccgcct gtcctggacg cggttatcta gaggaagtgt 240
 gggcgccata ggaggagggt ggtgtggtcg aacgggctcg gaggggtctt atttataggc 300
 ggggcgagga aggggatcga gagcaccggc gagctctctt ggaggagggtg cacgacgacg 360
 agaggcgctca gggagagaga ggcgggagtg gtcaggggtc a 401

<210> 6090
 <211> 434
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-047-Q1-E1-D6
 <400> 6090

taccggtcta caattcccgg gccgacgggg atgggacgta agactgcaat ctttctccaa 60
 ttatctacct ggattattat attcgggtgc tatgttggtt accgtttact attagccagt 120
 atgtgcaaaa aagggaagat ctgagatgga gcaaaccaat tcatggctct tctaacgcga 180
 atgtagatgc gtcatacaat gaggattaag cagcaccatg tgccacatga gctggtatgc 240
 atgatgaggg ggtcaattc attgccatag caacgtagtt tataacatac gtaccgaatg 300
 cggaagccgc tgaaacactc gcccttcgaa ttgggtcttct tccggctgag cagccaggat 360
 gtaacaaact gatggcgcca tggcggaatc tgattgttcc ctggttatcg atgctatcaa 420
 cgatgctgag aact 434

<210> 6091
 <211> 429

<212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-047-Q1-E1-D8
 <400> 6091

cggtctacaa ttcccgggtc gaaaggagtg ggtaattatg aaattgagaa atacttttgt 60
 tgaagttggc aagtcccata gcatgcacgt atggtaaaag ttgtgtgaca aatttggtgc 120
 atgaggtgct cttttcattg tcttccttat gagtggcaga cggggacgag cgatgggtctt 180
 ctctaccaa tctatccctc ttggggcatg cgtagtagac ttttgcaata agtatatgag 240
 ttctttttga ctaatgtgag tccatggata taagcacact catccttcca ttttgctagc 300
 ctttattatt accgagcaac ttctgccgtg atcatgaacc ctttatttac ctctctcaa 360
 acagccacca tacctaccta ttatggcatt tccatagcca ttccgagata tattgccatg 420
 caactctcc 429

<210> 6092
 <211> 439
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-047-Q1-E1-E10
 <400> 6092

taccggtcaa gaattcccgg gtcgacgggg ctgacgacgg ggatgtcgga ctggagcgag 60
 tgcccggagc tggggccgat cggggacctg cttgtgtcca aggacttcca gaccaaggcg 120
 tccgtgctgg tgggtgcagtc ctatgggagg gcggcgccgg cggcgccgc gtcgacgtct 180
 tctgaatttg ctgttgccga ggccgtcttg ccggcgccag aggccatcat gccggcgacc 240
 tccatggggc acccgccaag gcgcccacga caacattcac attctgacct tatgctttga 300
 tagtagtata gtttggtaaa gcttgctagc acattgatta attaatatt taattaggga 360
 gcgcctaatt ttgagcggg aattaggaag tgtctgatga tcagtcgagt gatgttaatt 420
 tgggtgacag tcaaacatt 439

<210> 6093
 <211> 434
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-047-Q1-E1-E12

<400> 6093

taccggtcta gaattcccg ggcgacggga gcagccacac cgaccactac ccgaggggacc 60
acaagatctt caaggacccc atctccttcc acaagcgtgg gttcgagttc atcagggcgca 120
ccttcatgga caagcagaac gtgaggtctg actgcaagag gttcagacct gtgctgctgg 180
aggcactgga caacctcaac cagtaaattt aaggcaactt gccaccatt tttaccattc 240
gtttcgtgaa atttgatgtt cattctctca tggcgtgtat gtatggtcta aactatagag 300
attttgtcta ggaattactc gtgtaaactg tataaattaa attgcccgcc gctgcaaaga 360
tggaacgaaa ttcattgaaa aaaaaaagg ataatacaaa aaaaagaaaa aaaaagaaaa 420
aaaagaggaa caac 434

<210> 6094

<211> 429

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-047-Q1-E1-E6

<400> 6094

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cgagctccac aaggcgggccg aacaggtcat gaagggcctc atagttcggc tgtggcctaa 120
ggaggccatg tctgggagct actttggcct ggtgcggcgg ctggtggatg cgtgctcgtg 180
ggttgaagtc atcaagcact ccgcctgtat tgaagggtgcc cgtcggggccc ttgcccgcg 240
aaaggtgcac tggggcaaga tggatgccca gaagctcgtg acggaccocg caccagaggg 300
caaggagcat tacacgcccg agatgtatta taagagtgtg ctgaagggcg cccgcactat 360
tgcggtgag tgcctcaaag atgtaattt tgagtagact cgcattttgt tatcctgtgc 420
gttgaaaac 429

<210> 6095

<211> 426

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-047-Q1-E1-E7

<400> 6095

cggtctagaa ttcccgggtc gacgggaggt cgaaggtggt gcctacaacg aggcctatcc 60
gacgcaggac ttctttgtcg ttaccaaagt ctacagtaac gaatttgact aggttgctct 120
cgaggaagtt cttaaaattc tggcactcaa catcggcacg gcatatgtgg tagaccaagc 180
ataagtcacg cacgcaaacc tggatcacga cgggcttctt cctctcttca tccttttagat 240
ccttctctcg tcccaggact atggtgtact caacatctag cccagcgacc cactcatcat 300
ctgagtcttt gaacatgcgt ctgaagcgag aaaggcatcc ttccaccatc gcggaagaac 360
gggtgtagat gacgtcgaac tcatcgccgg tgatggttct aaccttgatc tcaccgccga 420
tcgtgg 426

<210> 6096

<211> 398

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-047-Q1-E1-E8

<400> 6096

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tgacctgcca tgaaagcagg gccgctaggg ctcgtcagct cattaaggag aagagtcggt 120
atctccctgg gcggtgcatc tcgcgcgtct tcagctacct tctcagcctg gatccggatt 180
ttgacttcaa caccgcgata gccccctgc ccggggtcgt acagggcgac ctggcgagat 240
gggtggacga tcatcttgac gacctgatta aggagtttgc tcttgctgac gacgtggctg 300
cactcgcaac caaggagggc ggagccaacg atgatggcga caacgacgat atgggcaaca 360
tcgcgtcccg ctaggcctgt acttctttgc tcttcctg 398

<210> 6097

<211> 266

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-047-Q1-E1-F11

<400> 6097

tacggtcaag aattcccggg tcgacgggaa ttaccacagg ttgtcgccg gcgagcgctg 60

agcggcacgg cggtggctgc agagtTTTTT ggctgcagag ttagcatagg gtgttttttag 120
 ttcttagttt cttagtttt tctagctttg accgatgtat ggtccgaaaa tgtctgtaat 180
 ttttaagcttt tttgtgtaac tttttcttgc tgtgtttata ttttttttct ctctatgtaa 240
 tgacatgagc atttttttaag aaaaat 266

<210> 6098
 <211> 426
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-047-Q1-E1-F12
 <400> 6098

attccccgggt cgaagggatg gaccaccggg acccttccgg tgggtcccggg acaataacctg 60
 tgaccacctga aactttctcg atggccgaaa cctgacttcc tatatataat tctttacctc 120
 cggaccattc cggaactcct cgtgacgttc gggatctcat ccgggactcc gaacaacttt 180
 cgggttactg catactaata tctctacaac cctagcgtca ccgaacctta agtgtgtaga 240
 ctctaggggt tcgggagaca cgcagacatg accgagacga ctctccggtc aataaccaac 300
 agagtaatct ggatacccat gttggctccc acatgtcctt cgatgatctc atcgaatgaa 360
 ccacgatgtc gaggattcaa tcaaccccgt atacaattcc ctttgtcaat cgatacgtta 420
 cttgcc 426

<210> 6099
 <211> 372
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-047-Q1-E1-F3
 <400> 6099

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 tggcggcgac caacaccggc gacatcatgg acgcctaagc aaagcactga tccacggaca 120
 ccaaggcgta cgtacgtctg agtttggggg cgcaagatca ataagatggc tcggtgaaac 180
 agacgatgct tagggacgag ggcttgtctt tgtgatttgt caaactcgtg tttaattccg 240
 atgtctgtct ttagttttcg tgtgttaacg taatttggtc atgccacctg accgccatgt 300

gctctgccct gcctctacct cgcggaatt ccatggagga tgaaaccttc tggaacatga 360
ggaggaata aa 372

<210> 6100
<211> 437
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-047-Q1-E1-F6

<400> 6100

taccggtcga caattcccg ggcgacgggc gtcccggtt tgataacagg gagatgggtt 60
cctacctcat gcattctact gaactacaag aattcaatat cactactgga gggattatga 120
atggtgacaa taaatgcaat aaaacatagg tgtgaataac atggttaaata tgaacttacc 180
tggttaagttg atgaagatgt taacgctctt ggaaactttg ataaactatt cgttactcca 240
agaaaatcta tatagtcaaa cattgcattc acataagcaa caatcctagc aatcaattat 300
accaatcaaa aagcaataaa taaagcaata atgatttcaa agaaaatcaa ataaaattcc 360
aaagaaaact ctaaagaaaa caagggcgaa accaactcac agaatatcaa tcaatactcg 420
cataacaact ctaaact 437

<210> 6101
<211> 418
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-047-Q1-E1-F7

<400> 6101

cgggtcaagaa ttcccggttc gactttgacg atcagactac gaacgtgcga tgacgtcgcg 60
ccttagcaat cgctaaacca actccgagag gttattgacc acgccggagc acgattaacc 120
tgaccacgag ggtctgtttc ctgcgagcaa acgaagaaca agcaagaaac tgagattgca 180
atctggatat tgcgaatata agatgaaagc tttattgatc aaggtggggt tctgtgacgc 240
ctttgtctgg tcgttgaaca caaacgaagt acgcgaagtt gcggctatgg cgaactttta 300
atctaaacaa aacccaaagt ctaaacgacg ccctaagggc tgtatatatg gaggaagagg 360
gggaatttcg tggcccttgg ggaaggggtc cgaaaccaac cctatctctt gtttcccc 418

<210> 6102
 <211> 390
 <212> DNA
 <213> *Triticum aestivum*

 <223> Clone ID: LIB104-047-Q1-E1-G1

 <400> 6102

 ccggggcaga attcccggaa cgacgggaga acgggtctagg gtaccaaggg tttatgatgt 60
 ctcggttgttt ttgcatgcta gcaagtgact ccgggatgcc agttttaaga tttcgcttgt 120
 gttgaaagat attattatta ttactgcttg tagcctacct gggataccgt catattttgc 180
 tgattatgga acccctttta tcctgcttaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 240
 aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaagga aaaaaaaaaa aaaaaaaaaa 300
 aaaaaaaagc ggccgccta aaggttccaa cttacttac ccgtgcatgc aacgtcaaac 360
 cccttctaaa gggtcaccta atttcaattc 390

<210> 6103
 <211> 443
 <212> DNA
 <213> *Triticum aestivum*

 <223> Clone ID: LIB104-047-Q1-E1-G10

 <400> 6103

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 cttcaagag gcagcagata agtaccaaaa caccaacttg tatctgaaga acttagatga 120
 tactgttgat gatgaaaagt tgcgagaact ttttgctgag ttcggaacta ttacttcctg 180
 caaggttatg cgtgattcaa atggcgcaag cagaggttct ggatttggtg cttttaaatc 240
 cgctgatgat gttcccagag ctcttgctga aatgaacaac aagatgggtg gcaataaacc 300
 actttatgtt gcactcgcac agcgcaagga agacaggaaa gctaggctgc aggcacagtt 360
 ttcacaaatg cgtcccgttc caatggctcc aaccgttggt cctcgtatgc aaatgttacc 420
 tcctggtggt ccagtcggtc aac 443

<210> 6104
 <211> 436

<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-047-Q1-E1-G11

<400> 6104

gtaccggtcc agaattcccg ggtcgacggg tcctattact gttgtgctc acgaaaatat 60
aattgtggaa gatgatgcac ttgatgatga tctcgttatg cctattgctt gttgtgatga 120
ttattattgg gaagataatg atacttttat gatcttgaaa atctttttgg cacttgcttg 180
gaagaatatg ataattgcta tactattggg gctatccata ctattaatga tgagagtgat 240
tatgcttatg atatgaaaag gaccaagctt ggggatgcta tgtttgatga gagtgacatt 300
tttgagaata tattttctgc aattaatgtt tgtcccaagc ttggggatgc tacgtttaat 360
gaagatgata cttttagtct gccaaagttt gatatgcaaa tttataatga tgatagaatg 420
cctcctactt atgatg 436

<210> 6105
<211> 471
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-047-Q1-E1-G3

<400> 6105

cggtgcagaa ttcccgggac gacgggtttg gcacaattgc ctgtttgctt gcctggctag 60
tccaaagtca tgatattttt gttatagaat tatttttcat agtctaaaat aattagagat 120
aaatattggg gccatgcgta gctatcatca tgggtagcaa gttatttctc tatgcacaat 180
gccttcctct caaagtctgg ctctttttgt tttgcgaggg aaagtcttgc tctttttaac 240
gggcaacgat gcaacgactc cttatgcat acacaaataa gtgtaccccg ctaagctcgc 300
acgtatacca caactcattc actctattgt caaattttca cacactatac tagaagttta 360
ttttaaaaag aatgcctcgt tagcactagt aattctgtta ccaaataat gtacatcctc 420
ctttagttcc tccaagtcta acaaaacttt cccgtaaaaa aatgtcatat c 471

<210> 6106
<211> 421
<212> DNA
<213> Triticum aestivum

<223> unsure at all n locations
<223> Clone ID: LIB104-047-Q1-E1-G7

<400> 6106

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cacggacgag tcattctttca acaacatacg gaactgggta cgcaacattg agcaacatgc 120
ctctgataat gtgaacaaaa ttttgatagg caacaaggct gatatggatg agagtaaaag 180
ggctgtttct actgcaaagg gacaagcact agccgatgaa tatggcatcc agttctttga 240
aactagtgcc aagacaaacc tcaatgtgga gcaagttttc ttttccattg cccgagatat 300
taagcagagg cttgctgaga ctgattccaa gcccgaggac cggacgatca agattaacaa 360
gacagaaggt tctgagaatc cagaatctca gaaatctgcc tgctgtggct catgangagt 420
a 421

<210> 6107
<211> 438
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-047-Q1-E1-G9

<400> 6107

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gaagcctgtt ctttaagcag gagatggagc tctccctggg tggcctacag aatgctggga 120
agacatctct agtcaattca attgctaccg gtggatacag cgaggacatg attccaactg 180
taggctttta tatgcggaaa gtcaccaagg gaaatgtcac aattaaactt tgggatcttg 240
gagggcaacg tagattccgg actatgtggg agcgctactg tcgtggagtt acggctattc 300
tatacgttgt cgatgctgct gaccgggata gcgttccgat tgctaaaagt gaattgcatg 360
acctgctgac aaaacaatct ttatctggga tccccttact tatecttggc aacaaaattg 420
acaagtcaga ggcacttt 438

<210> 6108
<211> 423
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-047-Q1-E1-H3

<400> 6108

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caatgggtca tttcttagcc ttatcttaaa taataactag ttattcctaa aaacgtgggtg 120
agacatattg ttttaagaga ttatctcatg tcttctctta aataagagaa gacaagcatt 180
ctcttagggc atgtaaaatg gttgataaga cagtcttatc ttaagtcttg catgtaatta 240
gagggcagccc attaggtcat gtacaatggc tcataagata gtcttatatt aagtcttgca 300
tttaatttag aaatgacaaa aaacatgtct acaatgggtc atctcttagc cttatcttca 360
ataataacta gctatttcta aaaatgtggg gagacatatt gttctaagag attatatcat 420
gtc 423

<210> 6109

<211> 414

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-047-Q1-E1-H5

<400> 6109

taccggtcca caattcccgg ttcgacgggg agtgaacaaa aaaaaaaaaa aaaaaaaaaa 60
aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 120
aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 180
aaaaaaaaaa gggggccccc ccaaagggtc caattttttt ttcccttcat tcgcactcca 240
aacccctccc aatgggtccc ccaattttat ttccagggcc ctttttttaa aacctttttc 300
cgggaaaacc ccgggggttc cccaatttaa ccccttttga aaaaaccccc ttttcccaa 360
gggggtttta tccaaatggc cccccccctt ttcccttcc aaaaattttc cccc 414

<210> 6110

<211> 410

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-047-Q1-E1-H7

<400> 6110

cgggtcaagaa ttcccgggtc gacggggaag atgacttggt tataagctca gttgcctctt 60
 gctcaaattt gtgggctcta ataatggatg ctggcactgg ctttacttct caagtctatg 120
 aactttctcc atattttctt cacaaggaat ggataatgga gcagtgggag aagaacttct 180
 atatcactgc gttagcaggt gcaaacaatg gtagttctct ggtgggtcatg tctagaggaa 240
 cacaatatgc acagcaatcc tacaaagtag gtgactcggt tcccttcaag tggataaaca 300
 agaagtggaa ggagggtttt tacgtcacag ctatggccac tgcaggaagc cgatgggcag 360
 tggtcgtgtc ccggaatgct ggctttgtag atcaggttgt ggagcttgac 410

<210> 6111
 <211> 437
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-047-Q1-E1-H9
 <400> 6111

taccgggtcga gaattcccgg gccgacggga agcagaagtt gtggcgcggt tggcatcgga 60
 aatggatgtg atgaagaaaa ccgtgagtgt actagtagcc gaacgagatg cagctcgggc 120
 gcagcatgaa gatcatccag cggatctcag aagccagcag cggagaagca gtgtggcttc 180
 cacggaggcc ccacctgctg gtgcagatgc accgacgac gaaattactg caccggagcc 240
 tctggtggtc gaaattactg caccggagcc tctggtggtc gaaattactg caccggagcc 300
 tcctcgctac cccgtggacg atataaagga gatgaaagaa tgtcatctgt attatcctat 360
 cgggaacatg tccatgaagg tagccatcgg cagtgcctta ccatgtttac ctggagcact 420
 ccaccacaac accccca 437

<210> 6112
 <211> 389
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-048-Q1-E1-A1
 <400> 6112

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aagttaacac gggctggaaa ggggtcaacgg aataatggac tgttaatggg tataaagcca 180
 tacactattc attatgggtc agtttcacct tgggccttta gtgggcccac agttacaaag 240
 gaccttgcac gggccgaaag acgttatggg ccatacatgg gccgaaagtt acaactgatt 300
 gtaatcatat tggacgggtc agatgacgtt gctgggccta attcggatag gccataacgg 360
 gccgtgagtt agcgaactgt aaatgggct 389

<210> 6113
 <211> 393
 <212> DNA
 <213> Triticum aestivum

<223> unsure at all n locations
 <223> Clone ID: LIB104-048-Q1-E1-A6

<400> 6113
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 gaatacatgt cactagaaca taatattctt cgagcactga gcctctatta aactagcgcc 180
 ttcaaggact tctttaaaagt agtgctcggc cgatactcgg cccacggctg aactctgggt 240
 cgcaatagcg gtggcctcca tctctgcca gtatgtcttg acatgggcca gagccatccg 300
 cgcaccctct atgcacgccg acctcttcat agcgtcgatg cgcggcacag caccaaggaa 360
 ctgttgcaact aaactaaaat aactattcgg cct 393

<210> 6114
 <211> 201
 <212> DNA
 <213> Triticum aestivum

<223> unsure at all n locations
 <223> Clone ID: LIB104-048-Q1-E1-A9

<400> 6114
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 cgggcgcccc aaaagatgta aacttaactt tacctgcaat gaaagttaaa agccttccaa 180
 aatgttaacc aaaattttatt t 201

<210> 6115
 <211> 294
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: LIB104-048-Q1-E1-B11

 <400> 6115

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 tgcagtggga tttgtagggg actatgctgc gctgtgtttg ggatttgaaa tagaacgatg 120
 ggagatgtgc cacgctctta aaatcaaaca cataaggcaa aaaccaatag caaatgtgcc 180
 agccaaatct gcaacatgca tgcacataaa aaattggccg cccatcagga tctaaactaa 240
 cttacgcgtg tatgcgaatt catacccctt cgatagaggc acctaaattc attt 294

<210> 6116
 <211> 433
 <212> DNA
 <213> Triticum aestivum

 <223> unsure at all n locations
 <223> Clone ID: LIB104-048-Q1-E1-B5

 <400> 6116

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 gagttcatcc gcgtgcctcc actattcaac aactttggtg agttctctct ctctagatct 120
 tgtaggggtt ttcacgagtt tgtaggtagt tcatcctcgt tcttcgctgt agcttgtaac 180
 ttttgattca gacttagtac cctcctacgc ggcggtagac atggtaatca tttttgttat 240
 tagaacatct cctttgcgta agaaaaccaa tctggacaca tgaactgctc acgtactgca 300
 acttaggtct aaatattttc cattctctga agtgctgtag atccaaaatt gtagcatcaa 360
 tctgtgaaat ctgtntttcc aacacttagc aattttccca ttctcagatc tgtgaaatta 420
 atatttgtag gtg 433

<210> 6117
 <211> 387
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: LIB104-048-Q1-E1-B8

<400> 6117

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catgcacctg ctgccccctc aggtacagaa tcctgtatat ggctggtaag acagaaccac 120
tgctgttagt agtacataga taggcctgta atttgtgaca ctaattcttt ttctctctct 180
ccccgatgcc aacggcaaag ccttggtcat tattaccaat acgaactaca gactgcttgt 240
agcactagat aagacttggtg tattcgatat ttcgatccct tgagttttga tggccatttt 300
cactgggacg ctcaaaaaaa aaaaaaaaaa aaataaaaaa aaaaaaaaaa aaaaacaaaa 360
aacaacaaaa aaaaaaaatt caaacia 387

<210> 6118

<211> 424

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-048-Q1-E1-C12

<400> 6118

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gtacacgctc ggctacaaga ccgtcctcag gaccctcagg aactccaagg caaagcttgt 120
gatccttgct aacaactgcc ctccactccg caagtctgag attgagtact atgctatgtt 180
ggcgaagatc actgtccacc actaccatgg aaacaatgtt gatttgggaa ctgcgtgtgg 240
taaatacttc cgagtctgct gcctgagtat catcgacctt ggcgattccg acatcatcaa 300
cgcaacacca gctggccagt aaacctgtgc atgccatttt cagtgtctcg tctgatgcca 360
ttttcttgct ggacttgatt tggctctgtg tacatcattt atcagtcaat caagtttgat 420
ggga 424

<210> 6119

<211> 457

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-048-Q1-E1-C6

<400> 6119

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cgtggatggc aggtatggtt tcctccttcg acgtcttagt cgcgggtgggg tgccagatct 120
 ggagttcgat ggcgtgttaa ggggtgtgtc cccgtctgat tcgttcaacc gcaatggctt 180
 cacttttggg gagccacctt gaaagtcctc aaagctgcat atcagtgatg gcgccacgtc 240
 gagttaaggt gaggaggtga tccgtcattc tttcttcggg tggctgttgt gatgggtgcag 300
 gaggcaggtg acgggcattg acgtcaagct caaagatggt ctactatctt ttcagttttg 360
 tcatgtaggt ctttacatga cttgtatttt gttcaatatg atatgaatga aacgcgtatt 420
 gccaaagaaa agaaacattc cttgataaat attaatt 457

<210> 6120
 <211> 420
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-048-Q1-E1-C8
 <400> 6120

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 aagctatagt tgtccggagt actgggagaa gagaatgcag atggaacgag ttgagcgtgt 180
 tcgtctggct aaggagcact gggagtccca gtgcagagca ttcttgggcg tctgatggaa 240
 catgtagact tcgtacaaaa atgggattcc ccattgctgt tggttagatc ttgatttggc 300
 atgactgtaa tatatttgta tctatcctgc tgaatgaatt ggtctgtaat tgggaggtca 360
 cttgtgcgcc tagatgtaaa aaggggtaaa cttgtagtga ttatctgaat gtaaaattgc 420

<210> 6121
 <211> 176
 <212> DNA
 <213> Triticum aestivum
 <223> unsure at all n locations
 <223> Clone ID: LIB104-048-Q1-E1-C9
 <400> 6121

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 tatatcacca caacaatgtg ctgcgtatta gcattaatga gttccgtata tcttgagacg 120

aaaaanannn nnnnnnnnnn aaaaaaaaaa gcggccgctc tanaggatcc aagctt 176

<210> 6122

<211> 276

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-048-Q1-E1-D2

<400> 6122

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gtgttatgaa taacaaacag attaaacaaa cccagaatga cagtggcaag attactttaa 120

aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaggaaaaa aaaaaaaaaa 180

aaaaaaaaaa aaaaagcggc cgctcaaaag gatcaaagct aacgtacgcy tgaatgcaac 240

gtcaaagctc ttcaaaagtg tcacccaaat tcaatt 276

<210> 6123

<211> 386

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-048-Q1-E1-D6

<400> 6123

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atctaatcgc tccagtgac agctgattga tctaggttca ctaacaggac gcgagaggct 120

atggaagtca ggtttgttcg tatggataat gtttgggagc agtgataatc gatgagacgt 180

taatctcaat atgtacgata ataattcctc aagatataag tgtaattcca aaatattatt 240

cgtaaggaaac ttaaaaagat gccctttgat ttgagaata gtgtgaaaga atttatgatc 300

tcggacgata attttaatgc attgctagat gaacaattgc gtacagttaa agatttggat 360

aggaacgtct atatacatc gattga 386

<210> 6124

<211> 408

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-048-Q1-E1-F10

<400> 6124

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tacgagggcc acggcaagtc ggaggggctc cagggtaca ttccctcctt tgacctctc 120
gtcagcgaca cggacgcctt cttcaccgcc gtcgtgcct ccaeggccaa cacggacctc 180
ccccgcttca tcctcggcga gtccatgggc ggcgccgtgg cgctgctcct ccaccggatg 240
cgcccggggt actggaccgg cgccgtcctg gtcgccccca tgtgcaagat cgctgacgag 300
atgcggccgc atccgggtgt ggtgagcgtc ctcaagctga tgaccaacat catccccacg 360
tggaagatcg tgccgaccac ggacgtcatc gacgccgcct acaggatg 408

<210> 6125

<211> 455

<212> DNA

<213> Triticum aestivum

<223> unsure at all n locations

<223> Clone ID: LIB104-048-Q1-E1-F5

<400> 6125

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tttccgcaag atgtcatggc gcttctccat gcatccggc caaccactgg tttctccagg 180
gtgcccgtca accgtccttc acccagtact gtgtattgaa ttcttgtctc gagtctcgaa 240
atcttgagga gtctgaaga tgaagtcctt gcagatgtta tcatgaagtt gtcgtctttg 300
acataaagcc cttcattctc acaccactcc cgagcaatca taccaaacc cgtctactac 360
agcgtagcat taanactata tacgtcccgg gcttggtaac acggaggtgg gttcctacct 420
catgcattct actcaactac aagaatcaat atcat 455

<210> 6126

<211> 454

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-048-Q1-E1-F8

<400> 6126

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tcccacctgg actaaatacc ggatggaatt gaagcgtctc ttgatgtgct tggttctctt 120
 gtgaaatctg gattccttcg ccaaggtaat tgcaccagta ttgtcgcaaa agattttcat 180
 tggacccgat gcactaggta tgacacctag atcggatatg aactccttca tccagactcc 240
 ttcatttgct gctttogaag cagctatgta ctccgcttca cacgtagatc cgcgcacgac 300
 gctttgttta gaactgcacc aactgacagc tccaccgttt aatataaaca cgtatccggt 360
 ttgcgattta gaatcgccg gatcagcgtc aaagcttgcg tcaacataac catttacgat 420
 gagctctttg tcacctccat aaacgagaaa cata 454

<210> 6127
 <211> 413
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-048-Q1-E1-G10
 <400> 6127

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 tcgtacctga gcgcggagga gaggctgctg cgtttccggg tgtaccgca caacgtggag 120
 tacatcgacg ccaccaaccg gcgcggcgac ctacacctag agctcggcga gaatgagttc 180
 gccgacctca ccaggagga gttcctagcc aggtacgctg cgtcctacga tggggtcggt 240
 gatgatactg gcatcacgtt gcctgtgggc ggtggcgacg ccgagctgtg gtcgtccggc 300
 ggcgacaatg atagctcctt ggaggctccg cctcccagct gggactggag atccaagggc 360
 gccgtcacac cgggtcaagtc ccaaggcgca ggatgcgcta actgctgggc gtt 413

<210> 6128
 <211> 156
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-048-Q1-E1-G2
 <400> 6128

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 cgctctgagg atcaaactta cggtgacgtt cagtcgacga cgcattgacat caagttaggc 120
 acctaaatgt aactgactgg acgactttat agatgt 156

<210> 6129
 <211> 432
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: LIB104-048-Q1-E1-G5

 <400> 6129

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gtgacggctt catcgacttc agcgagttca tctccttctg caacgccaac ccgggggtca   120
tgaaggacgt cgccaaggtc ttctgaatca gttcatttca cctcagccgt ccgttccagg   180
agccgatcca tctacgtacg gcttcgtata tcaatttcat gcaactacct actccggtcc   240
cgatccagcc tcagcttcac ctgaggcccg ccctaaattt gtttgatcaa ttcttttgct   300
actagtagta actagtgatg atcactgttg catcatttat ttatttattt tatatatcat   360
cacaagtttc ctgtgattct tttctttcta tacctttttg tcgacgtcg gctccagctc   420
gatcgaacga tc                                                         432
  
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<210> 6130
 <211> 423
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: LIB104-048-Q1-E1-G7

 <400> 6130

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tgaaggacgt cgccaaggtc ttctgaatca gttcatttca cctcagccgt ccgatccagg   180
agccgatcca tctacgtacg gcttcgtata tcaatttcat gcaactacct actccggtcc   240
cgatccagcc tcagcttcac ctgaggcccg ccctaatttt gtttgatcaa ttttttgcta   300
ctagtagtaa ctagtgatga tcaactgtgc accatttatt tattttatat cgtcacaact   360
ttccagtgtt tcttttcttt ctctaccttt ttgtcgatcg tcggctccag ctcgatcgaa   420
cga                                                                    423
  
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<210> 6131
 <211> 254
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: LIB104-048-Q1-E1-G9

 <400> 6131

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 acggcgacca caaggagaag aaggacaaga agaagaagaa ggacaagaag cacggcgagg 180
 gccacaagga cgacgacggc cacggcagca gcagcagcga cagcgacagc gactgagcca 240
 gctccggccg cget 254

<210> 6132
 <211> 162
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: LIB104-048-Q1-E1-H11

 <400> 6132

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 tctttttatt gacaggggtt ttgatttggt tgatgaaaag aagaatggag taatagagtt 120
 tgatgagttt attcatgctc tcagtgtctt ccatccatgt tc 162

<210> 6133
 <211> 375
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: LIB104-048-Q1-E1-H5

 <400> 6133

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 aacccatggt ggtgtaccgg agcatgtgca tgtagtttaa ttttgaattg tgcacctgaa 180
 atggctagaa aaccaattta atgtgtaaaa tgttcaaact aatcctgaat aattccattt 240
 cttttacgac acacatatat ttgcttggtc actgtagata aagggcttag cattttcaaac 300

accgtccatt gccgctgtga ccccattatg taattcaact caagatgaaa actcatgtat 360
atccccacaca tttta 375

<210> 6134
<211> 423
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-049-Q1-E1-C10

<400> 6134

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acttttgcaa taagtatgtg agttctttat gattaatggt gagttcatgg attatacaca 180
ctctcaccct tccaccattg ctagcctcta tagtaccgcg caactttcgc cggtacatta 240
caccacccat ataccttctt caaaacaacc accataccta cctattatag catttccata 300
gccattocga gatataattgc catgcaactt ccaccgttca gtttattatg acatgcttca 360
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aat 423

<210> 6135
<211> 364
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-049-Q1-E1-C8

<400> 6135

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aaggttgact ggccttgaaa aaaaagtgc cggttgagat ggccggctgc ccgagagtcg 180
gctggaaaaa aagaagaaga aagaaatgtg cgtctgactg tcagatgtgc gtccgaccgc 240
tggctgcctg gccggctgca aagagcgca ctgttgtgtc ggggtctgcc tgcccagccg 300
gctgaggaaa aaaaaaaaaa taaaaaaaaa aaaaaagcgg ccgctctaga ggatccaagc 360
ttac 364

<210> 6136
 <211> 397
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: LIB104-049-Q1-E1-D5

 <400> 6136

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acgcgcacatcg ctcggtcccc gacctccac cgtaatcagg aactcgccga aattttcgtc  180
cccctcgctt ctagcacggt tttttccgtc agggacgac gacagaatgt catgcagctg  240
catctccggc cgcgccagga taaaagccc attttctgtc atgatttttt tggtatatca  300
gtaggagccc accacatcta tgatgatacc gggttttgtc acaattatca tcatagaact  360
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<210> 6137
 <211> 407
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: LIB104-049-Q1-E1-D6

 <400> 6137

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ccatgtactc ctacatggac tctcacgct acctttacca aatcgtgttc acacacttag  180
ctcacacaca gtaggacatg ttcacacacc tctgattcat ccccgatgaa tcagacctga  240
ctcaactcta agcagtagca ggcacgaaa acaagcatga atgagtaggc acaacagggc  300
tcaaacaact cctactcatg ctagtgggtt tcatttattt actgtggcaa tgataggtca  360
tgacagaggat aaagggttca gctaccgcag caagtaacag atgaatc                               407
  
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<210> 6138
 <211> 404
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-049-Q1-E1-D7

<400> 6138

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agagcttggc cagagagAAC ggcgtgtacc gcagatcggg acatgctgcc tcggcaccgt 180
caaacggaga aacgatgcac ttcctccctt tcccctggcg gacgggatgc ggccggatca 240
gtgaccaacg atgagagaga gagaggccac cgcactccct ttcctcggc ggacgggatg 300
cggccggatc agtgatcaac ggtgagagag agagaggcca ccgcagcctt gtgtgagata 360
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<210> 6139

<211> 403

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-049-Q1-E1-E6

<400> 6139

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gagaagcttg ctgtttttga tgctgctatg aaatacaaga acgaagggca tgacactatc 180
atcctggctg gtgctgagta tggcagtgga agctcaaggg attgggctgc gaagggtcca 240
atgcttcagg gagtgaaggc tgtgatagcc aagagttttg agaggattca ccgtagcaat 300
ctcgctggaa tgggcatcgt ccctctatgc ttcaaggctg gggaggatgc cgacactctt 360
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<210> 6140

<211> 327

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-049-Q1-E1-E7

<400> 6140

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 aaagttgcag actactggga catggctgtc aacttcacgg aagatttgct ctgagctaaa 180
 atttctgttg atgacagtga gagcgatcgc tgcggatcac tatactttgt aatgtcacca 240
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<210> 6141
 <211> 235
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-049-Q1-E1-E9

<400> 6141

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 ccggtgtgtg ccacgaaccg ggaccaatac tctgtgttca taagcaggac ttagaaaatt 180
 tccagtttca tgcaccattt tccccgcagc acccggaat tcaggtctgg aacct 235

<210> 6142
 <211> 328
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-049-Q1-E1-F10

<400> 6142

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 aaacctgatg tattagcggc agccatgggt ttacaccatg gtggttatgg aatgacaatc 180
 ctatgagcag catagtaatt catttgaact ttctcggatt gtttcgaaat ggattgaatc 240
 ttacatgaag tgcaggacga tccagccaca aatatgttga cgattcaaca tggatcatctg 300
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<210> 6143
 <211> 297

<212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-049-Q1-E1-F11
 <400> 6143
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 aacatcatgg atgttcctta ctctgcattc cttaatcttc attctgcatg tataatagcg 120
 gacacaacaa tatagttagg acatatatat agtgaagea atatgaacga gatggggtag 180
 aaataaatca cttacagaac gtaacaactg atgatagatt tgtcgagctc gcgcaaattg 240
 aaaagctgga acaattcact cagatgaatt tgtacatagt aatgtttgaa gtgatgc 297

<210> 6144
 <211> 415
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-049-Q1-E1-F5
 <400> 6144
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 gataatccaa gtactagata ctcaagacgt ccataaccgg ggacacgggt aaccatgatt 120
 agttttatata cttttagtag gtttgccgac ttttccccac aagacttgat ctctccggtt 180
 gggattttcg cactacatga tgtttgagaa acagatgacc gagacatact ctttcaaaac 240
 tgctagcacc ttacgatcgg gtagacagta ccacccatac tcccctacat ctgctagtct 300
 accactgtaa gagttcgcat gacttagtca actatgctag agaccatagt agcttgtggc 360
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<210> 6145
 <211> 304
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-049-Q1-E1-F6
 <400> 6145
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 aaatgcgctg ccaacagggt ttggctaaat ttccaaattt ttgcccgtga ctatctatag 120

cgcgatcctg tcggtgtgct ggaatggcac aactcagtgg caccaatatg cacaacagta 180
gacacttaca acacatctgt gtgaccgagt agttaacttc ggttgcacca atattgaaca 240
tctacataga cgtaatgata actgaggcac cgacaatcga cgaatcgggtc acacacgata 300
atca 304

<210> 6146
<211> 399
<212> DNA
<213> Triticum aestivum
<223> Clone ID: LIB104-049-Q1-E1-F8
<400> 6146

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aaagaagagt tagtatgtag ttctagcaca tcaaatacaa caggtttctc aagctctaca 120
tttagtgctt tacgaaagat tgacaaggac aagatggcca tggcgttggg gtccctgcag 180
acaagtaatc caactatttc aagtttccag tgcacacagt ccttgagtca ttcattctgaa 240
ttatcatgcc cttctcgaat atcaacagga tctaccctac cttccaaaac tactaaggaa 300
ctgtttggca ttgagactga atactgtgtg gccaaaggctt catgtgcca ggtagtcaa 360
ctggggaaac cttcttcaag tcaatccaat gaagtctcc 399

<210> 6147
<211> 393
<212> DNA
<213> Triticum aestivum
<223> Clone ID: LIB104-049-Q1-E1-G2
<400> 6147

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tggagaagcg tccacgtggc ccgccgtggt gggcgtggtg cgttggaggc gtgagaggcg 120
aggtcgtgac atgcttcgtg cgcggacaac gcaacgcaac gcaaacagtc tcgccgttgc 180
cacacacgtc actgtgtacg gactgtcaac ggtcaacgtt tgtaagagtg gagatggtgc 240
gcttttggaa aatcgagtgg tgcggtgttt gttactttct ccattcacag atataagatg 300
ttctattatt ttactttttt tcgattcaga cttatttaaa cacatttttag agcccgttg 360

aaatggatgt aagtttatac acctgtatatt att

393

<210> 6148

<211> 398

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-049-Q1-E1-G4

<400> 6148

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tggagggggag gggaatataa agggacaaag ctgagtggtta actgggccgg gcctcgctgc 180
gtaagaaggc cggagtgatt tctcccggtt tctttctttc gttctcttgt tctccttttc 240
ggcctgcaaa gaaacaattc ggtcttctca aaagaaaaag aaaaaaaca ttcggccccc 300
tcaaaaggaa acatacaaat gtctcaaaga caatacaaat aatttggcaa cgccttttca 360
gtgcgtcgtc tgagtaggac ttgccggcgc tgccaact 398

<210> 6149

<211> 392

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-049-Q1-E1-G5

<400> 6149

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atctgtgaca gacatggagt cgtcgttggc aacgggaccg gctgctgtac gggatatgca 120
gtgcgacctc gagtcccaag ccaacgccct cagcaagatc cagaccgaca tctccaataa 180
tcactaggtc cgcattgcagt tcaccatcca ggctggcgag aatgaactcg tcctcacgga 240
gctggagctg ctgaatgaat gggctaactg gtacaagctg atcgggccag tgttggtcac 300
acaggacaat gcggatgcta atgccaacat caaaaagcgc atccagtaca tcacatctga 360
gctaataaaa acggatcggg cgcttaagga ct 392

<210> 6150

<211> 400

<212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-049-Q1-E1-G7

<400> 6150

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gtggagggtg aagctttggc tcttcgtcgc ctacgtcgtc tctttcgtct gcctggctgg   120
atcgggtgggt ttgttggtgc aagacgccct gacagacaag ggcccttctg tgtggactgg   180
tgttgccggc gttctgcaat gtgttttctg gttgataagc gggttgacat actggacgtg   240
ccacaccgag gattaagggt caaaaatctc gcgaagacag acgtctagtc tatacccggtg   300
tgtggtcctg tgtaaaaaaa tatgttcatt ccagggcggg attacttggg gtccgtgtgt   360
gcatagctga ccgcttcctg aaatggaccc ctagcatcag                               400
  
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<210> 6151
 <211> 392
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-049-Q1-E1-H11

<400> 6151

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ataatccatg gactcaacat tactcataaa gaactcatat acttactgca aaaatctaca   120
agttatcaaa gcaaagtatt acgctcatgc tcctaggggg atagattgct atgaaaatac   180
catcgctcgt ccccgaccgc cattcataag gaagacatct caataattaa atcatgctcc   240
aacttcatca cataacggtt caccatacgt acatgcaacg gaaatcacia cttttatcac   300
aagtacctct caaatcaca actactcatc taccatgact caaatatcac catctttaga   360
cctcaaaaca attatcaacc atcaaacttt tt                               392
  
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<210> 6152
 <211> 413
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-049-Q1-E1-H12

<400> 6152

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 gccaatcttt ttgcatttca aaaaagaaaa aaacaaaaaa gttaaaaaaa aaaaaaaaaa 120
 aacacaagaa ccaaagggg aaaaaagca aaagaaaaaa aaaattacac aaccaaaaaa 180
 gaaaaaaaaa aaagaggggc cgcccaaagg gttccaagtt tacgtccgcg tgaaggcaag 240
 gtcaaaccct tccaaaagg ccccaaatt ccaatccagg ggccgccttt taaaaacgtc 300
 gggacgggaa aaccccgggg gtaccaatc taaacccct tgcaacaaac ccccctttcc 360
 caaccggggg tattacaaa aaggcccccac ccgtttcccc ttccaaaag ttg 413

<210> 6153
 <211> 406
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-049-Q1-E1-H5
 <400> 6153

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 agaaatttag caacactttt cccgcaggat ctcttgcaag aagaaaataa tctccaaatt 120
 cgacttgtca attttatttc tcatgaaaat agcaagttaa ctcaaagaat ttatcacaca 180
 aatagtcaat ttgttagaac ttgcttagta gtgaattggg aacaagaaga aaaagaaaag 240
 gctgggtgctt cccttggtga ggtaagagca aatgatctta ttcgcgattt cctaagaatt 300
 gagttagtca agtccactat ttcgtataca cgaaaaaggt atgataggac aagtgcagga 360
 ccgattcccc ataataggtt agatcgcgcc aatatcaatt cttttt 406

<210> 6154
 <211> 186
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-050-Q1-E1-A12
 <400> 6154

tcccgggccg acggatcaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 60
 aaaaaaaaaa aaagaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaagcggc cgcccaaag 120
 gttccaagct tactttcccg tgcattgcaac gtcaaaacc ttccaaagtg tcccctaaat 180

tcaatt

186

<210> 6155
<211> 411
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-050-Q1-E1-B12

<400> 6155

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agcttgggga tgcccatgga accccaagat attcaaggat agccaaaagc ctaagcttgg 120
ggatgccccg ggaaggcatc ccctctttcg tcttcgttca ttggtaactt tacttggagc 180
tatattttta ttogccacat gatatgtgtt ttgcttggag cgtcgtgtat tatattagtc 240
tttgattttt agtttaccac aataatcttt gatgtacaca ctttttggga gaagcctact 300
tgattagaat ttgctagaat actctatgtg ottcacttat atcttttgag cttgatagtt 360
ttgctctagt gcttcactta tatttttgag agcacggtgg tgatttaatt t 411

<210> 6156
<211> 418
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-050-Q1-E1-C10

<400> 6156

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ttgcttcact tatatctatt tagagagttg ccaggaattg gtcattcaca tggttagtca 120
taaaatccta cataaaactt gtagatcact gaatatgata tgtttgattc cttgcaatag 180
ttttgcgata taaagatggg gatattagag tcatgctagt gggtagttgt ggattgtaga 240
aatacttgtg tagaagtttg tgattcccgat agcatgcacg tatggtgaac cgttatgtaa 300
cgaagtggga gcatgaggta tttattgatt gtcttcctta tgagtggcgg ccgggggacga 360
gcatggtctt tttcctacca atctatcccc ctaggatcat gcgcgtaata ctttgttt 418

<210> 6157
<211> 371

<212> DNA
 <213> Triticum aestivum

 <223> Clone ID: LIB104-050-Q1-E1-C12

 <400> 6157

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 gtaaatatgc attgttgtat cgcgacctga atgaaataaa cgaaataatg ctcttggtca 120
 atcggcaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaca 180
 aaaaagaaaa aaaaaaaaaa aaacataca ggcgactcca aaggactaat acatagttac 240
 ccaaataata atacatcaaa cctcgtcaat agaagccacc taaatgcaa taactggccg 300
 ttattaaaca acatcgtcat ggagaaaaac ctgctttcac caactgtagt agtattgaaa 360
 aagatcccac t 371

<210> 6158
 <211> 401
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: LIB104-050-Q1-E1-D12

 <400> 6158

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 gaggcgtggt gagtgtcagt gtttattgtt actggaatgt gagcgtggca gaagtagaaa 120
 gccggatcgt gaatggtacg cagagcacia cggggttccg tccagttttc gttggcgctc 180
 ggagggatct ggagagacta ggggaggatc cctgggcccg ggcttagtgc tttgatcagt 240
 gaaagtacgc aacaagaaat catggtttga acaattatgt atcacaacia attaatattg 300
 aggacaacia atgcaaaagt cttaactca caggactgag cgaccagccg ggaggctctt 360
 caaggtgagg gattactgca agaccataac taatcccctt g 401

<210> 6159
 <211> 417
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: LIB104-050-Q1-E1-E12

 <400> 6159

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cattgaagca cttgagaagg atattcaggc agtgcgggaa ctaaaagaga agaatttggt 120
gctgctgaca taggcatcaa cagccgaagc ggtggtgctc cattttgtca ggtttctagg 180
acaagtggct ggaatgtcat actgctgggt tgctttgtct tcgaaatggt tgggatagta 240
ccactttgtt gtogttgtag tgctgatatt tctgctgta gctgtttgta ggctgggttac 300
ctgcatgtgt tctctgagtt gtctgataac cggcgacat tgtggttgc gctacttgct 360
gcgttgtgtc tttgtgtggt atcttactgg agttgagatg ttatctgttg cgttgtg 417

<210> 6160
<211> 318
<212> DNA
<213> Triticum aestivum
<223> Clone ID: LIB104-050-Q1-E1-E5
<400> 6160

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ggacaggagt acaacaactc caaggacaat ttccccaaga aatgcacatt agcgaaggtc 120
aggagaatgg cgaggttcat catcgacaat aagacgacca ttaggatcgt cgatgtgaca 180
acgatgatca tgacgacgat tgccaagatc acaatgcagc cgaccactat gataatgatg 240
atctctctgc cgtctaccat ggagattgac ttcactacga tgattatgac tattaagaat 300
aagaggaaaa ttacgact 318

<210> 6161
<211> 405
<212> DNA
<213> Triticum aestivum
<223> Clone ID: LIB104-050-Q1-E1-E6
<400> 6161

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caggggagac gtaggatggg agttcggccc cggcgaactg atagggagga tagtgtacgg 120
cgaactgtct atgtctcaga cattgatcaa catgtcactg aacagaaact tgctgaggtt 180
ttctcaaact gtggtcaagt ggtagattgc cgtatctgtg gtgatccaaa ctcaagtatg 240

cgttttgctt ttatcgagtt cgctgatgat gtcggtgcaa gagcagcttt aacgcttggt 300
 ggaaccattc ttgggttttta tcctgtcaga gttttgccat ctaagactgc tattttgcct 360
 gtgaacccca aattttcttc tcgaacggag gatgagaaag aaatg 405

<210> 6162
 <211> 392
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-050-Q1-E1-F10
 <400> 6162

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 aacatcggcg accagctgga ggtgatcacc aacgggcggt acaagagcgt gatgcaccgc 120
 gtgctcaccg gccccgacgg caaccgcatg tccatcgcct ccttctacaa ccccggcgcc 180
 gacgccatca tattcccggc cccggcgctc gtgggcgccg ccgacgctgc tgagaggaac 240
 gagggcgagg agggcaccgc cgtgtacccg aggttcgtgt tcgaggacta catgaacctg 300
 tacgtgcgct acaagttcga ggccaaggag ccacggttca aggccatgaa ggcagacgcc 360
 gcgcccatcg ccaccgcgtg ataacgcgcg gc 392

<210> 6163
 <211> 417
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-050-Q1-E1-F12
 <400> 6163

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 gcaccacac atgatagtc tattatcttt ttgaactct cctactacac tatatcgag 120
 aagtttgtgc ttactaaggc ttatattgat gggttgcctt ttaccattac acatgatgat 180
 tttgatagat ataatatgca cgtgcttgct gctcctactt gcaattatta tgagagagga 240
 actatatctc cacctctcta tgtttccaat atgataaaat tgcaataaac tgtttatatt 300
 atgcattggc ctttactatg tgtgcatgaa ttgttctttt atgacatgcc gatgcatagg 360
 aagagagtta gacttcgttg ttgcatgata tatgttactt tgtgctcact actaaat 417

<210> 6164
 <211> 377
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: LIB104-050-Q1-E1-G10

 <400> 6164

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 gaaatttgtc ctgcagagag tatatacttg gaaaattgtc aacagacttt cctgtttcgt 120
 aatatggcac aggactttat tatcttttta atgtgacgaa gaactaatgt agcgtagttt 180
 agccaggatg tatgactgtt atccaaagag catcaatgaa gagctaaaag gtctattgta 240
 ttccaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 300
 aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 360
 aaaaacacat attggat 377

<210> 6165
 <211> 387
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: LIB104-050-Q1-E1-G11

 <400> 6165

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 ttgcatgtc cgggcgccaa gcggccgtat cggctcggct gtacgcgtct gctgacgtca 120
 cgtaggggtg tgggtatatg ctatgcatca tatgcccaa atgcccttag acatgggggg 180
 taccgaagca aacctcattg ttcaaatatg tccaggttgt tgcgaaccc ttatgttggg 240
 agaatatgag aactctaggc caaattagcc ttcgactatc tatacctaatt attataagac 300
 ggatcctttc atagtcttct atctatcgt cttttgtatc cgttgatttt atgttaacaa 360
 agatattaac ggccgacatt taaaact 387

<210> 6166
 <211> 304
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-050-Q1-E1-G12

<400> 6166

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ttgtgtgaaa gtatgctaca ttgccccgct tgataagcaa gtaatactca tcctttcatc 120
tatgcatggc cgtttaactc ttgtcttaaa aaaaaaaat gaaaaaaaaa aataaagggg 180
aaaaaaaaaa aagaaaaaga aaaaaaaaaa taaaagtaga aaagcggccg ctcaagagga 240
tacaagctta catacccatg catgcaacgt catacctctt caaaaatgta acctaaattc 300
aatt 304

<210> 6167

<211> 403

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-050-Q1-E1-G6

<400> 6167

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gtggatgagt cagatacaag gctcttacat gagggaaaaca aactcgatat cacaaaacga 120
caacacactc ctattggata tgagggtggca tgcaagaatc caagcatagc tcaacgttca 180
tgggtgacctg gagaacatcc tgaggctgga gggatatcga attcctcctg ggtctgataa 240
cagggtgaatg cagtaaacac cataaccatc agtactatga tctggaacaa tatcatgaat 300
aaactatattt ctggattatg aatgaattct gaaacatggg gctataagtg aattatgttc 360
catggatttg taactatggg gaatgtcaag ttaacgttcc atc 403

<210> 6168

<211> 334

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-050-Q1-E1-G7

<400> 6168

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aaatgagatc gatgcagatg attatggtaa atgggtcatc gtcgggaaat caacctgtat 120

atgacaatca ggcaacacgc ccctatttca tatgaggcag cacgtcagga tccaagtcta 180
 gttcaacgtg catggtacgt cagaaatcat ccagaggctg aagggatttc aagtcactcg 240
 atggtccttt taacacgtca ttacagtga caccaatata tttctgtatc ataatcagga 300
 agcatatcat gactcctgca caaactggat tatt 334

<210> 6169
 <211> 408
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-050-Q1-E1-H11
 <400> 6169

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 tagaacagga cacgccccca ccgaccggcg gcgaggaaga ggaggaggac atggcgggcg 120
 cgcgggggca aaaggcgctg gcgacgctgg tgaggctcgt gcggagcgat tccatctcca 180
 actccaacgc tcccaggctc aggcacctcc cgtctctcat gaggaccttc tcgctctacg 240
 accatatcaa cctcatcgac accgtccccg aagaccagct ccgcttccaa acttacgatg 300
 aactggatt catgattaac aatgtaaagt atgaaggag cttgctgata gtagaaaaca 360
 agataatgac ctggacaccc aaaacatttg cggatataac tgctgaaa 408

<210> 6170
 <211> 405
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-050-Q1-E1-H9
 <400> 6170

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 catcctagct acagagatgg tgtgcaagtc tttgcattcg tggatccgca gcgagttatc 120
 gtggaagtgt atccacattg aaccggtatt gagcggaag atctctgatc ctgatcgtct 180
 atttctgaca cagaagattc caggtgattt gcagtgctta aatataaatg actgcataaa 240
 tatcaccgac aatggtttga atgctgttct ccaaagcaat ccgacgttaa caaagttgag 300
 tattgcacgc tgcccgcggt taacttttga tggccttatt gccaatctaa agtcatttaa 360

tatgaaagca gtgtcgggta ttaagagcct cagaattgac aaaaa

405

<210> 6171

<211> 439

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-051-Q1-E1-B10

<400> 6171

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acgatgtgct ctcggtgag gacggagctg ttgcggccgc tccggtggc gctggtgaac 120
cggggcccg acgaggagct gctggtggca aaccgggtgg aggtgtccgg gaagggtagg 180
ccgctggtgt tctatgacat caccctcgcg ctcaagaacc tccatagacg agtcttcttg 240
gccgagatcg ggaggcatgt ggtggacgac agggagtggg aggtgtacag ggtgcacctg 300
ggcgaggacg accacgagct ctctgctcg gtgcggagca agattgtcga tggcgtcacc 360
aacatgctca tgggctggga ctgactgacc gactggtcac accatgcac ttccttgaca 420
tattcagtct tgttgcaaa 439

<210> 6172

<211> 445

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-051-Q1-E1-B12

<400> 6172

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ctaattcctt acggtttaag agcagtttcg attttaccga aaagcggaca ctctgttctg 120
cgcgagacca aaatcgtcgt atgtactgca tcggacagaa gaacgcattg cttcagacaa 180
acgcattgct tcagacaaaa taccgactg catcagatgg gcaagtgcac tgcattggtt 240
ctttttgttt aaacgtattt tttgtcggac gaggaagaa gaacgcactg cttcagacga 300
aataccgcac ttcattcaca gagacaagtg cactgcatga ttttttttgt gagatgtaaa 360
ttttccata cgagtttttg ttttgttgt ctttttttca actttctttt atgaacgaga 420
agtggacgca aagacaaggg gaaat 445

<210> 6173
 <211> 450
 <212> DNA
 <213> Triticum aestivum

 <223> unsure at all n locations
 <223> Clone ID: LIB104-051-Q1-E1-B8

 <400> 6173

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 agctttcgag ttagttcatg acaaaatacc tgcgacgctg atagcagact ctgctgcagc 180
 tgcacttatg aataatggac aagttcaagc tgtaattgtg ggtgctgac gtatagctgc 240
 aaatggtgac actgccaaaca agattggcac atacaacctc tcaatttctg caaagcatca 300
 cggcgtgcag ttttacgtgg ccgcaccagt aacttcgatt gatctctccc ttccgtctgg 360
 gaagcaaatc gtcatagaag aaagatcttc aaaggaattg ttgaactctg aaggtggtct 420
 angaaagcag gttgccgcgt caggtatata 450

<210> 6174
 <211> 443
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: LIB104-051-Q1-E1-C10

 <400> 6174

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 ttcacactta aagttggggc gttccctacc gaaaccatca tgcttggtgt gagaagctct 120
 ggtttgtgat aagcatcttc ccaaacctgc cccaaatggg acaaaaaatt taccacggca 180
 tgatgatgcg gctccattat agcatgccaa gttacatgaa tttcagacga gtgtcggatt 240
 tactagattt tataaactag gcatctcaat gtttgtggca ggggtgttga cattaattcc 300
 catttcttgc atgggaccta agcatgcacc caaggacaaa agatttgatt tttcaaccaa 360
 tttatatgca ccggagcatg tgcatgtagt tccaatttgc attatgcaca taaatgcatt 420
 gaaaactcac ttaatgcata aaa 443

<210> 6175
 <211> 430
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-051-Q1-E1-C11

<400> 6175

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 aagtggctga agcccgggtgg gcatattttc atcaggaat cgtgcttcca ccagtctggg 120
 gattccaaga ggaaagtga cccgacgcac taccgggagc cgagggttcta caccaaggtg 180
 ttttaaggaat gccactccta tgaccaagag gggaattcct ttgagctttc tctggtaact 240
 tccaagtgca ttggagctta tgtgaaaagc aagaagaacc agaaccagat atgttggtcg 300
 tgggagaagg tcaagtgcac agaagacaaa ggctttcaga gattcctgga caatgtgcag 360
 tacaaatcca ctggaatctt gcgttatgag cgcgtgtttg gggaggggta tgttagcacc 420
 ggtggattcg 430

<210> 6176
 <211> 422
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-051-Q1-E1-C12

<400> 6176

ggtacaggtc cagaattccc gggccgactc gtcgtgaaag ccgacgctgc gaatgcgctt 60
 gtgagagccc ttgcgtgccc gtgagagctc gttcgaggga tccgcggcgc accgggacat 120
 ctctgttcca gctgtggctt cgccgcagga cctctctagt gcttccgcgg ccttgggtctt 180
 tgctgcctgg ttatatgtcc accctaaaact cctcctaccg gtcattggtgg aatgacttga 240
 caggaaagac cggttttgtg ggtgatgagg agaggaactg tgaagtaatt ttcgagtggg 300
 tagtttttat agcccagtgc taagtgtgaa cgcatattag tttgataggt gtgaacagat 360
 ttgcaattac ttattacgtt gtaatctgca atgtgacgag aaacaaggtc aaaattattg 420
 at 422

<210> 6177

<211> 398
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: LIB104-051-Q1-E1-D11

 <400> 6177

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 atcgggatgg ccgccagccg tgaagcggca gcgacaatgt tgtccattgg gttagaatag 120
 tgacccggtg gtgtggggac gtgcggtgcc acaatgttgt tctgacgagg cggatccacc 180
 aaacgtggtt gaactggtgc ccctgctcca ggtgcctccg cccggtttac caccggcgga 240
 ttactggtcc ctgctcctgg ggtgttaaag agatttctag cgtcataaac cggcggcagg 300
 tgagatcggg gcctcctctt caggacttcg ttcgacgcac tctgatccag cataatccgg 360
 taagcttggt catccaaagc ggcccgtcc gcgactat 398

<210> 6178
 <211> 390
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: LIB104-051-Q1-E1-D12

 <400> 6178

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 ttcaactgtc gtagggcttc gcctaagcac cactacaata ttatcgagga ttatggtgga 120
 agggggcacc gcacacgact aagaaaacga tcatgtggat caacttgtgt gtctaggggt 180
 gccccctgcc tccgtatata aaggagccaa gggggggtgc ggccggccct ggtaggaggc 240
 gcgcaggagg agtcctactc ctaccgggag taggactcct actcctaccg ggagtaggac 300
 tcccctccct ttccttggtc aagtaggaga gggggaagga agggagagag gaggggaagg 360
 aaaggggggc gccccccacc cccggctggc 390

<210> 6179
 <211> 377
 <212> DNA
 <213> Triticum aestivum

 <223> unsure at all n locations
 <223> Clone ID: LIB104-051-Q1-E1-D2

<400> 6179
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 ggaccattgc ctggagctct tcacgggtca gaagtgatcc gtgtgcacaa gcttgccctca 120
 tctacggctg ggtgcagtgg acatccacga cgtagcatta ctcaaataat aaatgccctc 180
 aatgtgcggg gttactcgag ttgtttgaac ttgtttttgc ttgagcacia cgtattttatt 240
 gatgtccatc ttgtattgta atccctatat actagtgggt gtgcgcgcgc gcttggtttta 300
 attgtgatcc tactcgtaat gaattatggt actacaacat agnnnanatt anagaaaaaa 360
 aagcggccgc tctagag 377

<210> 6180
 <211> 454
 <212> DNA
 <213> Triticum aestivum
 <223> unsure at all n locations
 <223> Clone ID: LIB104-051-Q1-E1-D7

<400> 6180
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 caggggtgctg ctgctggagt ggttcgccga gaactaccag cagtacggct gcaagctgga 120
 gttcgtcacc aacaggtccc aggaagggtc gcagttctgc cggggcttcg gcggcatcgg 180
 cgggatcctc cgctaccggy cggacgtcgc cgcctatgac gacgacgacg acgacatgct 240
 ggatgacgac gtctatgaag acctcgaata gcaatcaact gaagcttcag tgcacacggt 300
 ccgggaggag cctgtgctgg ccacgaccgc gccgggacga gaccctgaaa catccaaacg 360
 atcgggtgcan gggaaacaag gaggtggaga gaagaggatc taagcaattg cgcaatccag 420
 atgttgagcc aggcattgatg atagcgtcga tgct 454

<210> 6181
 <211> 419
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-051-Q1-E1-D9
 <400> 6181

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taccgctcat cgtaaggcat ggcaggacca gagaccccg c tgataccgag atcttcagag 120
gttcaagctt ctgcaaaaaa caagtaatga caaatcttag ggcattgtaca tttcaactaa 180
aggcaaattt gcaaaatatt tagattactc attattacct tatecttcac gcgcattcatg 240
tatgcccggg gttgcacgtc gtaaacaatca tccaaaagcc aaaccatcct tacaatttca 300
tacaataaac atataaaagt tcatcttcat ctcaaatac ggtatacact aaacatataa 360
catgtgttca actacaagaa tctcaacatc tccttctcac ataatagaata tgtcatatg 419

<210> 6182
<211> 439
<212> DNA
<213> Triticum aestivum
<223> Clone ID: LIB104-051-Q1-E1-E10
<400> 6182

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ctaacagccg atcctgaaag ggtgcttaag gggatcagaa gaccaccacc accgccggcc 120
acctccaggt ccgtgccggc ggcattcttc gtgtctgcta categcctgc tgatgccctt 180
cctcccagc atcttctcac tgctggagat gctaagggtg agccaggggc tatectgtta 240
atggatcaag ataatacgc aatgaacatt aaaaatgatg ccattttgtt tgacatagac 300
gaaccttatg caaagaactt tcccacatgg agagtggaga tcattgtctc atgtaaggaa 360
tctcccaatg tttttctgcc actaagggtg aaggatgtta atcatgatga taaggcagac 420
attgggagag atctcaaga 439

<210> 6183
<211> 440
<212> DNA
<213> Triticum aestivum
<223> Clone ID: LIB104-051-Q1-E1-E12
<400> 6183

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gttttgttgc atccaactcc aaggatgacc ctgccaaagg ggcagccaac ttcacctccc 120

aggtcatcat catgaaccac cctggtcaga ttggcaacgg ctacgccccca gtgctggact 180
 gccacacctc gcacattgct gtcaagtttg ctgagctggg gaccaagatt gacaggcgat 240
 ctggtaagga gatagaggcc gcgcccaggt tcctcaagaa tggatgatgct ggcatagtga 300
 agatgattcc caccaagccc atggttgtgg agacctttgc cacttatcct cctcttggtc 360
 gttttgctgt ccgtgacatg aggcagactg tggctgttgg tgtcatcaag ggcgtcgaga 420
 agaaggaccc aacöggggcc 440

<210> 6184
 <211> 424
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-051-Q1-E1-E2
 <400> 6184

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 tatttatggc atttccatag ccattccgag atatattgcc atgcaacttt ccaccgtttt 120
 gttcattatc attatgacac gcattacttt tgtcatattc ccattgcatg atcatgtact 180
 tgacatcgta tttgtggcaa agccaccatg cattatTTTT catacatgtc actcttgatt 240
 cgttgcacca tcccgggtaca ccgccggagg cattcatata gagtcatatc ttgttctagt 300
 ttcgagttgt aattcataag ttgtaatcaa tagaagtgtg atgatcatca ttattagagc 360
 attgcctaaa gaaaaaata gaaataacaa gaatggccaa aagaaaaata ggcccaaaaa 420
 aaga 424

<210> 6185
 <211> 451
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-051-Q1-E1-F5
 <400> 6185

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 gatgaagctt ttgataaaaa gagaaaccgt gacatgaaag gaattaagga gacacaaagg 120
 ttcaagcttg gggatgcccc aggcaccccc aaataatatt tcaagaagtt tcaatcatct 180

aagcttgggg atgccccgtt aggcattccca cttttcttct tcaacaacta tcggttagta 240
 tcggttgagc ctaagttttt gtttcttcac atgagttgtg ctatccttgc attgttattt 300
 ttttttgctt tgcttgatgt ttgaataaga taccaagatc tgaaattctt taatgagata 360
 gagtctttgc atagttgcat aattatttag ctaccctttg atcttcactt atatctttcg 420
 gagtagtttg taatttgctc tagtacttca c 451

<210> 6186
 <211> 433
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-051-Q1-E1-F7
 <400> 6186

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 atccagcagg tgggtgttcgc cagctacggg aaccgcctgg ggatctgcgg caactacacg 120
 tttggcaact gccacacgcc caaggccaag gagattgtgg agaaggcgtg cgtggggaag 180
 aggagctgcg tgctggccgt gtcgcacgag gtgtacggcg gggacctcaa ctgcccgggc 240
 accacggcca cgctggccgt gcaggcaaag tgctccaaga ggcagaggac cgccgagcaa 300
 taagtaacct aagctcacat atgtactgct atgtagatga tctcatcacc ttgacctttt 360
 tgcttttttc atgcttggtg tttgggatac atgttgact caggttggtg attcctgtga 420
 attgttctag gag 433

<210> 6187
 <211> 364
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-051-Q1-E1-F9
 <400> 6187

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 ttcattccctc attccttcac tcagcagctc ctcccagaag tcgtcagtca gttcggcctc 120
 accgcagcct tgatcccgct gacttctggt tcagtctttg aaggctcctg atattgttaa 180
 gcttggtttac ttatgggcac ttgtgtattg gtttattgct gggcattatg ccttgatatt 240

aaagatttcc gccagttaca aaaaaaaaaa aagagacaat acgaatccga ctaaaaagga 300
aaagaaccat aaagaaaaaa aacaaaaaaa aaaaaaaagc ggccgctcta aaggatccaa 360
gctt 364

<210> 6188
<211> 410
<212> DNA
<213> Triticum aestivum
<223> Clone ID: LIB104-051-Q1-E1-G11
<400> 6188

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agatcaagga caagatcagc ggcgacggcc acggcgacgg caagaaggac ggcgaccacc 120
acaacaccat catcgcatcc cattagcatt ctaccatttt cctcggagag aagtagccag 180
aaacagcagc gccatggccg gcatcatgca caagatcgag gagaagctcc acatgggtgg 240
cggcagcgac gagcacaaga aggacgagga gcacaagaag gcgaggagc acaagaagaa 300
ggacggggag cacaagaagg acggcgagca caaggagggc atgatggaga agatcaagga 360
caagatcagc ggcgacggcc acggcgacgg caagaaggac gggcgacaca 410

<210> 6189
<211> 442
<212> DNA
<213> Triticum aestivum
<223> Clone ID: LIB104-051-Q1-E1-G3
<400> 6189

accggtcaag cattcccggg tcgacggggg cggataccaa aaccatcgca ctatataaga 60
tgcaataata aaagtaagaa aataatacaa gtatctatgt aaacatacaa gtaagaatat 120
ttttcctttc agaaagaaga taagaacaag aggctcacca cgggtggtgcc ggcgatgagc 180
tcggcgcggg tgatcgacgg cagtgaagac ggggacgggg cgtgacaaac cgctaaacct 240
agacaaatat tgaggaaaat ggagcttggg ggtcgagctt ggagaggaga aaggttaagt 300
agtgtggctc gggcattcca tcgaacacct tgtgtgcata ggaggtgagc tagagcacca 360
ccaagccctc tccccctggg ccagaaaaaa cagagtagtg tgctctgctc ttacgcgagg 420

gggtatatat aggcacctca tt 442

<210> 6190
<211> 452
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-051-Q1-E1-G5

<400> 6190

ggtagcggac tagaattcgc gggccgacgg ggcgaggcgc ctggaaagat ggcctcggtg 60
tgaatctggg tggcagggcg gtgtggggta cccacacgcg gcgcttctga ggaccagcac 120
cggatgagga acccgtgtca cgtccatgct tgcgtgttgc gtcatagtca gtctgaccag 180
tttcagcact gatggctttg ttgacaagtt tcgaaaaaga tgtgcactca tgcagacgga 240
ggtcgcggcg aagctcagga ctaaggccct tacggaacct tgcttgcttc ttggcgtcag 300
tagaaacttc ctcagttgca tatcgggcga gattaccaa ctccctgcta taggcatcca 360
cagaaagtcg gccttgggtg aaactgcaa attcttcacg tttacgggtcc atgagaccct 420
ccggaatgtg atgttcacgg aaagcctcgc tg 452

<210> 6191
<211> 434
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-051-Q1-E1-G9

<400> 6191

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taaccgttcg tactaatgaa tacagcaaga attacaagac atggaaagat aagacaacga 120
aaacattggt acaaagcaaa catatagttt caaatcaatt aactattgaa gctaattgtgc 180
ccaaaagaat ctaggagtat aactacctac ttcaaaggca tatttataca gttcttctac 240
attttatact atcccgtagc aatgcattggg ttgacgacta gtgagagtaa ctcttcaact 300
catacattgt ttaattcccc ttcattgctta tcgaaggatg aatggtagta tgattgttat 360
gatcctgttg attcttttga aatatcgctt tttgatgatg cttgttatgc ttgtggccaa 420
gatgccaata tgaa 434

<210> 6192
 <211> 397
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: LIB104-051-Q1-E1-H10

 <400> 6192

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ttttgcagtt gagagatgga tccttcctgt gtatgtatcg ctttgctaaa gcctgggtgg   120
tgctcacaaa cacttggcac ttgtgtgatt cttttgtcca tggatgtact gtgtacaaca   180
agttgatggg aatgtgattt ggtatatgct ttcagttgaa aaaaaaaaaa aaaaaaaaaa   240
aaaaaaaaaa aaaaaaaaaa acaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa   300
aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaataaaa aaaaaaaaaa   360
aaaagggggc ccccaaaaag gttaacctt ttttttc                               397
  
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<210> 6193
 <211> 439
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: LIB104-051-Q1-E1-H11

 <400> 6193

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ttgctatgct atgtcaccac tccggagtgc cgagctcttc gatctgccac ctcgggaccg   180
gcttggggggc tgggacctca tcccgatgta agctcggact gcgtcatcaa tgccaaacac   240
aagaaccagc taagtcgtc ttatgtcaa agttttaaaa atttaaattt tgttcgggttc   300
gaccaagcat tatacttttt tggcaaagag ttgtttgtga aaaacttctt tgtcaaaact   360
ttgtttgtga cacacaaatt caaatacccc gtttacttgg gggcttcctt tatgaagcct   420
tccatcttgc atatgatta                                                    439
  
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<210> 6194
 <211> 452
 <212> DNA

<213> Triticum aestivum
 <223> unsure at all n locations
 <223> Clone ID: LIB104-051-Q1-E1-H5

<400> 6194

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 gcaggagcgc tcatccccgt gaaggaggag ggcacgacga cgaagagagg atgatggata 180
 agcttctgag aactacagc aagaagggga tggagaggga ggaggagcac aagacgaggt 240
 cgaagtccag gacccctcgg cctcgagcag atcgacctgc tgatggcaac aacagagatg 300
 gagcgcccag tcatccagag agaaccgcat ctctgcctac agaatcaggt tcaccgggtg 360
 ggaggacgaa ggctcctgcc cctgttcggg ccacctcgct gcagcaggac acgttcaggg 420
 ggaacgtgcn accgaagatg ccggattttg ac 452

<210> 6195
 <211> 425
 <212> DNA
 <213> Triticum aestivum

<223> unsure at all n locations
 <223> Clone ID: LIB104-052-Q1-E1-A1

<400> 6195

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 cttggatgaa catagcaaaa atgtccttag aagattatac catgactatt atttcgttcg 180
 ccaagaaaat ctttggcgac aaaatgcact gaagactcta cctgttctat tgaactgttc 240
 ggatatgttg gcatgcgggg aagatcttgg ccttatccct gcttgtgttc accctgttat 300
 gctanaactc gggttgattg gattgcgtat ccagagaatg cctagtgaac caggcttgga 360
 atttgatatt ccgtccaagt acagctatat gacggtttgt gtcctctcat gtcattgatt 420
 ctcca 425

<210> 6196
 <211> 432
 <212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-052-Q1-E1-B11

<400> 6196

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tctgaaggac tctaaagata aagcttggtc cacattgagg aggacacaga catttcgTTg 180
ttagacatca ctagtagaaa aggggggtatt ggtccaggcc gggtcagccc attagtcccc 240
gttcaatcca gaaccgggac caatgggggc attggaccgc gttcgtgagc cccggggggc 300
ggccgggcca cgtggggccat tggTcccggT tcgtctggac cttttggTcc cggctggTgg 360
gatgaaccgg taccaatgtg gcttgcTcct gggccaccac cattggTccc ggttggTgcc 420
acgaaacggg aa 432

<210> 6197

<211> 430

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-052-Q1-E1-B9

<400> 6197

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acgagtggag gaggcacccc atggtgggga accagctgcg ccacgccact cgggggctag 120
gcatcgccat cgtgccttt ggtatctacc ttgtcggcga ggccgcctac aaccgcctct 180
accgccgcgc cggcgacaac caccactaga tctccccag aggtgaagta gatggagcaa 240
accaatgttg atcttttccg gtttgatctc ataaggTctg catgaccacc ttgtaatTcg 300
cgatcaggag atgtgctgtt ggtccaacta gtgttctcTg aacgcgtgTc ctttaaattc 360
gatactccct ccgtccgcaa atacttgTcg gacaaatgga tgtatctaga cataatttag 420
ttctagatac 430

<210> 6198

<211> 422

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-052-Q1-E1-C10

<400> 6198

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ctttgctagg gagaagaaga ctagggcaaa gaagactgag ggcgagctat ttgagtcgga 120
gaaggaggca accaagaatt tgcccgactt caagaaggat gatcagaagg ccattgatgc 180
cgagttgatg aaggctatcg atgctgtccc agaccttaaa aattatcttg gtgcccgggt 240
ctccctcagg gatggtgaca agccgcatga gatgaccttc taagttacct ggtacaagtt 300
tcaagatctg tggaagtctt ttttgtctag tgtgtgtgct ggttctgtac ttctgatttc 360
ttttgcccgg ttggtgaatc tttgatttcc actgaagtct gcctgtcaaa tattttgaga 420
ag 422

<210> 6199

<211> 408

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-052-Q1-E1-C12

<400> 6199

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gatagggttc taagacctgg cggatactgg gtgctgtcag gtcctccaat taactggaag 120
gcgaactaca agggttggca acgtacaaag gaggatcttg aagcagagca gaacaagata 180
gaggaaatgg ctgagcttct atgttgggag aaagtctcgg agaagggtga gacggcaata 240
tggaggaaaa gagtaaatac tgagtctgt ccatctaggc tagaagaatc cactgtgcag 300
atgtgtgaat caacaaatgc agatgatgtc tggtaacaaga agatgaaggc atgtgttaca 360
cctcttcttg atgtacaaaa tccaagtga gttgccgggg gagcaatc 408

<210> 6200

<211> 405

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-052-Q1-E1-C6

<400> 6200

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 ttttttatta aaaagccaaa ttactccggc ttgtgatatt gtttatgcag agcaattact 120
 tactgcaaga gcggtggcga ctgacctgcy tccgtactga ctctaataac aacagtcgtc 180
 tttacctcc gccctccggg ttggtgtat atcaacacat tggagctgca ctgtctgcat 240
 gagctgttta ttgagtgcga gaaagtcact cctcgggtag cccgggtttt tcttccaaca 300
 atttgaaggc taattactat atattatcaa ccacctctg cactagatgg ctcaatgagc 360
 aggtgcacaa gtcgcccga ctatagtttg gttaacttca aaata 405

<210> 6201

<211> 418

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-052-Q1-E1-C8

<400> 6201

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 actacacaat cttcagcgaa accctggaga acaccctgcy cgagatgcta ggggaggaag 180
 taccctctc cgttgtcatc aagctcgga acgacgggtc aggtatcggg gccgtctcc 240
 tcgctgcagc tcattctcag tacctcgagg ccgaggtctg aggagccata gcctggatat 300
 agatatatgt tgggttggtc ctcaggagca gcgatgtctg agtcacgcca gggctctgtc 360
 tgtgtgtgta gctggagcat ccatggagag ctgtgtctct tagtaattgg tagctctg 418

<210> 6202

<211> 456

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-052-Q1-E1-D5

<400> 6202

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 ggggttccag atcttgcgct agctacagat tactacagac tgttctgttt ttgacagatt 180

ctgtttctcg tgtgttgttt gcttattttg atgaatctat ggctagttaa atagtttata 240
atccatagag aagttggaat acagtaggtt taacaccaat ataaataaag aatgagttca 300
ttacagtacc ttgaagtggc cttttgggtt ctttcgctaa cggagctcac gagttttcta 360
ttttgagttt tgtgttgtga agttttcaag ttttgggtga attcttttga tggatcatgg 420
aacaaggagt ggcaagagcc taagcttggg gatgcc 456

<210> 6203
<211> 406
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-052-Q1-E1-D6

<400> 6203

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agccaaccac tggatgtggc tttcagggtt ttttgcagtg ggattttagt ggtactatgc 120
tgcgctgtgt ttgggatttg aaataaaacg atgggagatg tgccacgctc ttaaattgcca 180
atcttctgct ccaaacttgc taaattactt gttgcatttt gcagcttgtc tacctttaca 240
gtgactacct tcttttggct gtgcccattt gggaaaacag tttgtccaat tcacatctac 300
ttcgtgtcct tttagacatt tcaaataagc aacaacatac ggatgtatgt atacatattt 360
tatagtgtag atccactcat tttgtccctt aagttgtcac ttgttg 406

<210> 6204
<211> 445
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-052-Q1-E1-D8

<400> 6204

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caggaaagaa aatcaaatta ccttatgaat ctatcgctgc agctccctat gaaccaagtg 120
ccaaagatgg cactatttag atctatcttc gcttttatgc ctagctaggg gcgttaaacg 180
atagcgctag ttgggaggca acccaatttt ctttatgttc tttgtttttg ttctgtttg 240
gtaataaatt ttgtttctac tttctgttta gatgtgtttt cttcttttaa ttagtgtttg 300

tgccaagtag aacctatagg ataacctatg atatgagttg atttgattct gcggaaaaac 360
 agaaactttg cactcacgaa aaaaattcaa taaatcacag gaacgtgctt ttgcattgat 420
 tccttttgcg gctgatcaat aaaca 445

<210> 6205
 <211> 404
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-052-Q1-E1-D9
 <400> 6205

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 caggggggagc ccttgccact tatgaagaca ataccctatc ctttacaatt tcacatactt 180
 cattcccggt gaaaacttca accagtttgt catcaatcac caaaaagggg gagattgtaa 240
 gtgcatctag tgccaccct agttggttt ggagtattga cgacaaagtt ggttgaggga 300
 ctaatgcgtt tgtgagaatt gcaggataac tcaggtagtg tccctcattg attcggttta 360
 cctaccggag atgacccta aaaatgtatg aagacattga cgac 404

<210> 6206
 <211> 439
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-052-Q1-E1-E7
 <400> 6206

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 aaggcacccc aagatattca agaatagcca aaagcctaag cttggggatg ccccgaaaag 120
 gcateccctc tttcatcttc gttcattggt aactttactt ggagctatat ttttattcac 180
 cacatgatat gtgttttgcg tggatcgctg tgtattatat tggcttttgc ttgttagttt 240
 accacaatca tccttgcgtg aacacacctt ttgggagaag cctatttgcg taggatttga 300
 tagaatactc tgtgtgcttc acttatacct tttgagcttg atagtttttg ctctagtgcg 360
 tcacttatat cttttagagc atgggtggtg attaatattg aagaaattgc tagtctctca 420

tgcttcactt atattattt

439

<210> 6207

<211> 442

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-052-Q1-E1-E8

<400> 6207

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caatggcagg ccacgcacaa ccggtcgtag ctgagcgagg aggagaggct gcgtcgcttc 120

cgggtgtacc gcgacaacgt ggagtacatc gacgccacca accggcgagg cgacctcacc 180

tacgagctcg gcgagaatga gttcgccgac ctacccagg aggagttcct agccaggtag 240

gcgtcgctct acgatggggg cggtgatgat actggcatca cgttgctgtt gggcggtggc 300

gacgccgagc tgtggtcgtc cgggcgaggc aatgatagct ccttgagggc tccgcctccc 360

agctgggact ggagatccaa gggcgccgtc acaccggtca agtcccaagg cgcaggatgc 420

gctagctgct gggcggtcgt ga 442

<210> 6208

<211> 446

<212> DNA

<213> Triticum aestivum

<223> unsure at all n locations

<223> Clone ID: LIB104-052-Q1-E1-F5

<400> 6208

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tectgaaaca ttgagaatct cgttttttaa atcccagtaa atcaaaaact caacacaaaa 120

acatgaaacc tggcatggtt tcatgacatg gcacatatat gccgtggtaa aaaaaatcgt 180

ccagtttgag aagagggcga cacattagta gccacaaaag tcctttttga aacaaaaatc 240

tgacatgtta atatcgcaaa tggttgtatt atattaacca tgatcgaaatt taaccatact 300

tgggtggtgt cgtgcagctg tttgattaga cgggacgagc ccgagaagtc caccgtgcag 360

gtcgcagggg acgcgtgcga agagtctgcc gtgcaggctc gacangacgc gtgcacacct 420

tccgcctcgc aggtcgcagc ggacac 446

<210> 6209
 <211> 440
 <212> DNA
 <213> Triticum aestivum

 <223> unsure at all n locations
 <223> Clone ID: LIB104-052-Q1-E1-F8

 <400> 6209

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 cagaaggctg atttaagtga actcatgctc ttgctgcta cccctgaaga agagttgcgg 120
 cggcgagggtg gtaatgggta tcatgagtac tctactgatg aagaggatga tgctgttctg 180
 gctcatgtgc gtgatgaaga cgatgatgat gactttctga gtgattcttc tgtgagcgat 240
 gaggagaatg ctcaaaccga gggagcggat gttcacaagg ttgctgctat tgtggccagc 300
 tgaaggcatt tgggtccatc ctatctgtct tcatctaact agtagtatat gtttacttac 360
 tggcagatgt ctctttgctg gatccgtctg tgttaaagt acccctgttg tgcntgttt 420
 cgaacaccga ctatataatt 440

<210> 6210
 <211> 389
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: LIB104-052-Q1-E1-G11

 <400> 6210

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 ggctacaact gcagcaccag cgggtggcacg actggacggg gcaagcttgg tcccttcggc 180
 ctccctgtgc tcgctgatgc caggcgccac ggtgggtgata tggagcggac cggcgtctac 240
 ttctacgtcg cgagaggcct cgacggcggc ctgcgcacac acttctgtca tgacgagaca 300
 cgctcatctc atgccaacga tattgtcaag agggtcgtag gcaatattgt ccccggtctc 360
 aatggcgagg agttttcgct gaggggtgct 389

<210> 6211

<211> 443
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: LIB104-052-Q1-E1-G4

 <400> 6211

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 gttggaatg aaacagtgat gagggatcca ctggatcaag cgcattgagc cattgactca 180
 ttgtggagtc atgagtctcc acgaggagtc caccctttct gtcccttttc caatattttc 240
 cgtatatctt ccgttcaaca tcaatcttac gttgctgaac attgctcttg tatgtaacaa 300
 accaaaagta aataataaca atatgacca agaattccag aaagcgccac ttacgcacga 360
 gacaatgcca gctgtactag ttgtgtaca cacatgttac atttggggat ggggattggg 420
 attgagcatc gcaagatcga acc 443

<210> 6212
 <211> 304
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: LIB104-052-Q1-E1-G9

 <400> 6212

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 atccttcgat tttgtgatgg caggtgtgca tgcctctggc tttgtcgcgt attgtgccat 120
 atttcgatag tgtatctagt gtctgtgtt cagtaaacca acgctcgtct cgtctttgtt 180
 gagtctagca tctgtgttgc ttctgttcat aatcgtaagc gaggtccag tgtcgtgtgc 240
 aactgcaa atgtttgtcc tattttctac tgctgctgct attggtccag atgaactttg 300
 tctc 304

<210> 6213
 <211> 346
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: LIB104-052-Q1-E1-H7

<400> 6213

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aaactacact acgcgtaaac agttacaaga acctacatac atgttcgttc cccacgctga 120
tggtgctctt gtgtattgct gctgctgccc atcttttttc tcatcccaca gaggcaaaaa 180
aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaccaaaaa 240
aaaaaaaaaa aaaaaaaaaa aaaaagcggc cgccctaaag gttccaagct tacttacgct 300
tgaatgcaac gtcatagctc ttcaaaagtg tcaccaaatt tcaatt 346

<210> 6214

<211> 446

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-052-Q1-E1-H9

<400> 6214

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aatcgggtcc aatgatattg taaaactgaa tttagagtct gcaattgtta cttggggggtt 120
tggtagacgg tcgttgtgtt tggggacgat gcagctgcag ccggttctct tggtgtggta 180
gatttgtggc atggcaggtg ctgctaagct ggagcctgct tgaactgttt tcctgtcact 240
ttgttggggt aataatgacc atcctgtaaa aaaaaaaga aaaaaaaaaa aaaaaaaaaa 300
aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaggca aaaaaaaca aaaaaaaaaa 360
caaaaaaaag cgcccgccct aaaggttcca acctactta cccgtgcatg cgaggtaaaa 420
acccttccc aaggggcccc ccaaaa 446

<210> 6215

<211> 424

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-053-Q1-E1-A8

<400> 6215

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aaggtagttg aggggtgacgg ggatcggatc acaatcaagg gggttgatgc tcgccaccct 120

atgattgtta tgctgcytga cagctgttt ctgaagatca ggccgcatca gcaaccaagg 180
 aggtggctta aaaagctctg gcctgaaggc cttcttgac tggtacacgg gcgagggcat 240
 ggacgagatg gagttcaccg aggccgagag caacatgaac gacctggtgg ctgagtacca 300
 gcagtaccag gatgcgacgg tcgaggagga agaggactat gaggatgagc aggaggatga 360
 ggaggccgcc taagcgggct tccccctttc tttccaggga tatgccttat atcgctcgtt 420
 atgt 424

<210> 6216
 <211> 403
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-053-Q1-E1-B8

<400> 6216

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 ttcctaaacg aacgacggcg aggacgagca gaatcgaatc gaatgaacca gacgcgattt 120
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 acgatggcga ggacgagcag aaccaataa accaagaacc ccacggacga gcgaaaccaa 240
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 caggaggagg cgaggcagga accgaggacg agccgaggcg agagggcatg gcccgggcga 360
 atacaggagg agtggcccgg agccccggat gaagagaggg gga 403

<210> 6217
 <211> 414
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-053-Q1-E1-C12

<400> 6217

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 aacactcgaa caccacctaa attcctacta ttagaggaaa aatgggtactg cagatactga 180
 ttaatgaacc gatctcttgg ttggaaaggg aaataaagat gttggcctga ccggtctctt 240

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<210> 6218
 <211> 416
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-053-Q1-E1-C6
 <400> 6218

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 gtggctcggg catttcatcg aacacctcat gtgtatagga ggtgagctag agcaccacaa 180
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 accctttggg cccggttcaa gccaccagcc gggaccaatg gtggtggggc aggagcgagg 360
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<210> 6219
 <211> 185
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-053-Q1-E1-D1
 <400> 6219

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 tgtaatggta agccacatac aagaagtggc tgaaggaaaa aaccggccgc atctacgagg 120
 atccaaactt acttacacgg taatgtcacg tcataccact accatagtgt aaccaaaaaat 180
 caatt 185

<210> 6220
 <211> 432
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-053-Q1-E1-D6

<400> 6220

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ggccagacag cgctggagtt cggaaaggca tcaaatcaga agggagccat gctggattgg 120
gtgaagaaga tgcaccatga gaagaaactt gatgtactgg ttgacaaggg tctgcggagc 180
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gcggaacggt ggcaagcgtc gcaacgagcc gactcacaca agttcacctg gctgagttc 360
accttcagcc gctgctactc cgacctgacc gacgactcgt cattgctggg gcatgccgtc 420
tagctctccg gg 432

<210> 6221

<211> 433

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-053-Q1-E1-D8

<400> 6221

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cgacatgagt acatttactc aaagattgtg tccttggtag attcgtcagc catgagacga 180
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aaggctcggc gggcaccctc aatacaaatg gatcgcttga taacttcaag ccacgaatag 360
gcatttacca tccgctttat aaggccggag tagctatcgg gcaagggctc accaggccac 420
atctggacta tga 433

<210> 6222

<211> 393

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-053-Q1-E1-E5

<400> 6222

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taaaagattt tagcttccaa gatgctgatg ttctcaaacc tgatatactc gctcctggca 180
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gatttgcaat gatgtctgga actagcatgg ctgcaccaca tattgctggc attgcagcac 300
taataaaaca gaagtatccc aagtggagcc cgtcagcaat aaagtccgcc ttgatgacta 360
ctgccaatac gatcgacaaa gggagccatc ctc 393

<210> 6223

<211> 428

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-053-Q1-E1-E6

<400> 6223

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acttggatga acatagcaaa aatgtcctta gaagattaca ccatgactat tatttcgttc 180
gccaagaaaa tctttggcga caaatgcac tgaagactct acctgttcta ttgaactgtt 240
cggatatgtt ggcattgcggg gaagatcttg gccttatccc tgcttgtgtt caccctgtta 300
tgctagaact cgggttgatt ggattgcgta tccagagaat gcctagttaa ccaggcttgg 360
aatttgatat tccgtccaag tacagctata tgacggtttg tgctccctca tgatcatgatt 420
gctccaca 428

<210> 6224

<211> 418

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-053-Q1-E1-E7

<400> 6224

ggtacaggtc aggaattccc gggccgacgg ggtcaggaag aagtggggcg gtggcgatcat 60

gggctccaag tcgcaggcca agaccaaggc cagggaagg ctcacgcca aggaggctgc 120
 gcagaggatg aactaagcct agccctataa gtattgtcag agcatatgcc atgtagtttc 180
 cctttcagtc tgtcctgatt ttgacgagga actcgaaccc ttttagcagc actgtggaat 240
 cgtattgtgg ttttctgatt cgctgttccg ttctccagac ttctgcaaag atcagatgag 300
 gtttaccat gtttgattc tatatagttt tatgtccttt gtcgagtctg aagttagttg 360
 tgtttgacat cttccaaact tggctggctt ttgggtaaca tgcaatgacg aacagctc 418

<210> 6225
 <211> 419
 <212> DNA
 <213> *Triticum aestivum*
 <223> unsure at all n locations
 <223> Clone ID: LIB104-053-Q1-E1-E8
 <400> 6225

gtaaaggcca ggaattcncg ggccgacggg gacacaacgt gggaaaatcc tcattcctct 60
 gaagtatctg atgtaaggga ggtgaccaca gaagctgaag aaaacagctt ggatattcct 120
 gttgatagcc agccagttgc tgacgatact ttccaaggct agactggact tttgccattc 180
 ttgtacacca tgactttttg tactaaagtt tttcatctcg gttcacagcg aacattctta 240
 taatcttatt cagttttcgc attgaccag agttccgtca cagcttttgt tgctcatctg 300
 taaacctgag tgaaacaaaa agaagaattg gatcatcaaa aaaaaaaaaa aataaaaaaa 360
 aaaaaaaact agaaaaaaaa taaccgggtc aaagaaaacc tcaaaaagag tttgatgtc 419

<210> 6226
 <211> 442
 <212> DNA
 <213> *Triticum aestivum*
 <223> unsure at all n locations
 <223> Clone ID: LIB104-053-Q1-E1-F5
 <400> 6226

ggtataggtc cagaattccc ggcccgacaa ccggtatc acactgact ccggcataga 60
 aaacttgcaa gagaatgga caccatgacg atgtacactg aattgaagat cccagaaag 120
 tggaaatccg cccgcttcca actgatgata aaattcttgc aattgagtat caaattggtg 180

gtagtaagct ccaagaagaa gaggtgcatt gtgctcatca gcctgagaaa agtgtaacat 240
ccaaccacaa tctataaaat aggcatacaa attcgaagga gcgaaagatg aagatgcaac 300
aatacttgag agctcaaggt atcctctctg tgattatatt tttttcatca tttcacacat 360
cgatgttttg cgtcttgaga tgtttattgg attgtgcaag aacaagggtt tcaatatatg 420
caaaanaaaa cgacaacagt ac 442

<210> 6227
<211> 412
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-053-Q1-E1-F7

<400> 6227

gtacagggtca ggaattcccg ggccgacggg ggcgataaag atcatcttca ggcacaaggc 60
gccggtggct gttgctgcgg caatcggtcg ctgttgattt cattcacgca cgctaactcg 120
ggacatcgat ctatgatcta tctttatctt tgtggaggat ggatgataac tgtttgttgt 180
ttgacaagggt gacatctaag cagctcggtt gtgtcatttt cttttgcttg tgttgctgta 240
tatgatatgt atcactgggt cagttgatgc tcctcatggt gaatcatcac agaataacctg 300
actgcggacg aacggacaca cggtcgctct aaaggatcga cgtttaacta gccgttcattg 360
ctacttcaga actcttcaaa agtgtcacc aacttcactt cattgaacgt ca 412

<210> 6228
<211> 292
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-053-Q1-E1-F9

<400> 6228

attcacgggt cgacggggat cgcaatgacg acggctcttg ctagcagttc cacatcaaac 60
catcaaatgt gcctgagctt tagcgctcac ttcagtgaca tgtttatgga ggaccgcttt 120
cctacattgt catcctggta aagggatggc aaacatcgtc ttcatagccg tgaagctcaa 180
tatgaagcac tgctactcta actcgaagta caaggattac tgcactgatg acaacgtcgg 240
ccaatatgat gatgtcgctc acgcgcctga gtttgacatc tctcgtgaga tg 292

<210> 6229
 <211> 425
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-053-Q1-E1-G5

<400> 6229

aattcccggg ccgacgggta cacaacctgc acaccggtat aaccttgtaa gtatctgtcc 60
 tccggtacaa catcaagggtc gattcctctt atttgatcaa ccattcgccg tgtcaaaaat 120
 gcagagggggg atgcaaggag cacaaggcct gcacatccaa gcaagtggta acatggactt 180
 gtacatggaa catccaagc gcaatcagag ctgcagttag cctgtacaac gagctagcgt 240
 aagtccttgc atttcattta attcgtactg gcattcgtgt atgatttgtg tgcagtggct 300
 gatccacgaa ttttaagttac caggggcgaa catttaactt aaaaaatacg aaggcacttg 360
 cactctggaa atcaacataa cttgagaaat gtgaagctac atgcactttg gaaactagct 420
 aatga 425

<210> 6230
 <211> 370
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-053-Q1-E1-G9

<400> 6230

aattcacggg tcgacgggga ccacaaggag aagaaggaca agaagaagaa gaaggacaag 60
 aagcacggcg agggccacaa ggacgacgac ggccacggca gcagcagcag cgacagcgac 120
 agcgactgag ccagctccgg ccgcgctccg gcagcagcgt gcagtgtagg cgagatcgat 180
 gaacgcttgg gagaagtgtg gcatacatat atgttgcagg gtttggagcg tgtggttagca 240
 tatgtatgta atgcgtgaca tgtctcatgg atcttgtgat gtataataat tagccggctg 300
 cactgcactg cacggtgctt gtaataataa cgtaaatgaa tcatgttggt attgatgcat 360
 ctccgttggt 370

<210> 6231
 <211> 264
 <212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-054-Q1-E1-A2

<400> 6231

cggtccggaa atcacgggtc gaccggatga gatggaataa ccagatcgtg gaccaacaag 60
aacggccgcc cctccgggaa aaaccccccc cttgtggtaa aaacatacgg gaaatccggg 120
aacaaaaaac attaggaacc ccccgaaata aacatgaaaa attgaaaaaa ttgacagata 180
ctgggcaaga tgtcaaacac atctggcttc ctctcaaaaa aaaagataaa aaaaaaaaaa 240
aaaagcggcc gctcaaaagg atcc 264

<210> 6232

<211> 85

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-054-Q1-E1-B2

<400> 6232

tccggaaatt cagggtcgac cgggccagtg gctgaattgt tcaaggattc aagagtcagt 60
ccagcgtgaa tacctcggac gtcga 85

<210> 6233

<211> 385

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-054-Q1-E1-B4

<400> 6233

agggtcgacc cggctcagat cagaagacc ttaggttgt tctgtacat gcattcgccg 60
tgtcagcagc caggcgacgc ggaggggatg aagggcagag agagaacatg tttctgtcta 120
ggtcacactg cttacttagg ggaggtggag ggcccgacag aacgcatgca aatattgaag 180
agggccgaga ctaatttgtt aacgggttatt ttttaagggtt attgtctgtt tatttctact 240
tgatttcaac tttctataca tacatacatg caaatgccc aaagtacact tcttacacac 300
gcctcttcgc tggccacctc tcacaacca catacgcgc tcttttccga tagaaaaaaa 360
cgggcggctc tagaggattc aagct 385

<210> 6234
 <211> 480
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-054-Q1-E1-B5

<400> 6234

cggggtcgacc gggaaggcga agatgtcgtg gcagacttac gtggacgagc acctgatgtg 60
 cgacatcgag ggccaccacc tcgcctccgc cgccatcctc ggccacgacg gcaccgtctg 120
 ggcccagagc gccgatttcc cgtcgttcaa gccggcggag atggccaaca tcatgaagga 180
 cttcgacgag cccggggaccc tcgccccgac cgggctgcta ctcgcagacg ccaagtacat 240
 ggtcatccaa ggtgaacctg gcgccgtcat ccgcggcaag aagggcgcgg gaggcacac 300
 cctgaagaag accggggcagg cgctgggtgt cgcatctac gacgagcccg tgaccccggg 360
 gcagtgaac ctggtggtgg agaggctggg cgactacctg gtagagcagg gcatgtagac 420
 gacgacgacg accacgccac gccgccgag caccaacaat actaccggcc aaaagacaca 480

<210> 6235
 <211> 455
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-054-Q1-E1-C2

<400> 6235

tccggaattc acgggtcgac cgggtgacgc tccaacacat gtccattaac gatgtgtggg 60
 tcaatgaacc caacatcatg gatgttcctt actctgcatt cctcaatctt cattctgcat 120
 gtataatagc ggacacaaca atatagttag gacatatata tagtgcaggc aatatgaacg 180
 agatggggta gaaattaata aatcacttac agaacgtagc aactgatgat agatttatcg 240
 agctcgcgca gattgaaaag ctggaacaat tcactcagtt caatttgtag atagtaatgt 300
 ttgaagtgat gtcctgtct aacttccgca taaatatatt ctttggcgtt tttatttttt 360
 atgtaaccct tgtaccattt cagcagacct ttcatttggt gaggtagatc cttttcctgc 420
 gcaggctcga cgagaggccc attcttgaca tatgt 455

<210> 6236

<211> 433
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: LIB104-054-Q1-E1-C4

 <400> 6236

 gggtcgaccg gcagctgaga gtcactgtca tggcgcgtca cctggtggat cgatctgtca 60
 ggcggggcttc tggagtactc gcagctaaga catcctccag aagctatgct aaacttgaag 120
 ttttctcttg taagatggaa gtcactgtcg cctggtctct tctcccgtac tggccacatt 180
 tacgtgacat gccgtgtcct agcatatgaa tgtggctttg gtttggctct aggtgccgga 240
 agtagttatt tatctatgca tgtatgtatg gttcgtaaca agtgtaagt ggggggactg 300
 taacttaagc tgggtgggtg gtaataagcc atatccttct atttgtcaga attactatgt 360
 aatatagaca gttcagattc gatggttggt ccaataaaaa aaaaaagaaa aaaaaaaaaa 420
 aaaaaagcgg ccg 433

<210> 6237
 <211> 487
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: LIB104-054-Q1-E1-C9

 <400> 6237

 tccggaaatc cagggtcgac cggatccaga caacagaatg taaaaaaaag ttacctcatt 60
 ttgcaatcta ttatgaattg attcaaccag cagggtttttg tcaaatcca gactgataac 120
 ttttaacaaga gattcttcat caatctacaa aatcatgaga gaaaccaaca ccttatttga 180
 ggacttaaata gaagaaatac atgactaaaa aatcctgtca gctcccatct ggacagtcac 240
 acagaaaact gcaagattga ctccaatata cataaaattt taagaaacca gtgagcactc 300
 ccattgcatag cctcactaaa tggcacaagg cagaagggtg atgtacagac cccagaaaaa 360
 aactttaaaa tatatcatta taaatcatga agagaaatga tgggcacatt tttaaccaca 420
 tataaactta accaccaagt ttatatgcct taataggaga tatcaacaat ataaaatatt 480
 tttatgg 487

<210> 6238

<211> 485
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: LIB104-054-Q1-E1-D1

 <400> 6238

 tccggaaatc acgggtcgac gggactcact accactaggg agcatcatgg aattggtgat 60
 gaaggagggc tgatgatgac gatgatcgaa gattcccctc tccggacccc caaaccggct 120
 ccacatctgg cctcccgatg aagaacagga ggtggcggtg gcttcgtatc gtgaaacatg 180
 atcaaacttc ctctttaatt tttctctcca aaagacaggt ttttatagag ttggaattag 240
 ggtagtgaa gccttggtgg acccactacc caccagggcc tgctagaggg ggatggcgcg 300
 ccctcatgcc tggcgggcag ccctccggtg ggtcttggtt ccataaatca tcatttatcc 360
 caacataatt ccccaaaaat ttccttccaa ttccgagAAC ttttatttct gcacaaaaca 420
 acaccatgat agttctgctg aaaacatcgt cagtccgggt taggttcatt caagtcatgc 480
 aaact 485

<210> 6239
 <211> 271
 <212> DNA
 <213> Triticum aestivum

 <223> unsure at all n locations
 <223> Clone ID: LIB104-054-Q1-E1-D4

 <400> 6239

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 aaaaaggaat aggtacttgg aacggtaagt aaaccgactc aaaaacattt ctaagggcaa 120
 ttttctccg ttttgaaata tttacaaaaa taggaaaata agaagcagtc cgggaaagac 180
 acgaagcctc cacgaagggt ggaagtgcgc cctaccccct gggcgcgccc cctgcctcgt 240
 gggcaactcg tgtgctcccg ggactccggt t 271

<210> 6240
 <211> 271
 <212> DNA
 <213> Triticum aestivum

 <223> unsure at all n locations

<223> Clone ID: LIB104-054-Q1-E1-D8

<400> 6240

acggtcagga attccgggtc gaccgggtgc gcgttctgag cgcggtgct gcggacggtt 60
gggctcaagg tcggcgggaa cccgaacgtg tacgccagcc tccttggggg tctgtgggtcc 120
tccgtggcaa acaggtggca cctggagatg ccaggcatcg tagatggctc gatttcgac 180
atgtcaagga ccggccttgg gatcggaatg tttaacactg gcctgttcat angtctacag 240
gacaagctcg tcgtgtgccg gcctggactg a 271

<210> 6241

<211> 468

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-054-Q1-E1-E3

<400> 6241

gtcggccgga gcatcttctg ggatggaagc gggtgcggag ggcaaggccc agtaaccctg 60
aaagaagaaa gacggccctg cccctgatgt ttggaaggaa aggggctgtg gttagctgat 120
gtaatgttac accgtagaat catcgttcgt gacgataata atgatccgac cagaactcct 180
ctagtatcat tgttctgttg tcattgtgta gtttactctg tatctgaact ttgttttact 240
cagcgaaacc gtactgctat gatgaatgtg tcgatgtaaa tcgtggctgt cgtgcctgtc 300
tgactgatac attgttcatg tagtcgatga atgatagcac ctgtgtcgtc tcagtttcaa 360
aacaaaaact caaatcaaac aaaaaaacta ttatcaatag ccgaaaccaa ccacaattaa 420
attatccaag acacaaaaaa aagcggcccc tcaaaaggat ccaacctt 468

<210> 6242

<211> 464

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-054-Q1-E1-F1

<400> 6242

tccggaaatc cagggtcgac cggagcaaag gcgccgacga caagaagctg gcgggggatgg 60
cggcactcac caccgccacc ctcttcttctc aagcatccgg ggacgcgagc ccgggcttcc 120

agaagcagcg ctaccagac ctgaccaagg ccgacgagga atgctttgaa acctgctaca 180
aggagctgac caatggcggc caaaaactcg acaatttgtg caccagcaaa gagggctcgg 240
acgacatcgg catggcccag ctccccgaaa tccgcagctt catcaaggag aacaacgggg 300
cgcacgccc gtggaattgc gataggtgtc gccctgcaa tgacaagaag acacccgacg 360
atgtctccaa gaagaacgat gccgaaaagg ccatggctgt cctcgaggtg ctcgtcaaca 420
aagtgaccaa attatgaaaa acaaacaaaa cctcattgca tact 464

<210> 6243
<211> 445
<212> DNA
<213> Triticum aestivum

<223> unsure at all n locations
<223> Clone ID: LIB104-054-Q1-E1-F11

<400> 6243

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gaggaagaaa atgcgatgct gaagcaacaa ttggaacagt atgagaataa atggtcagaa 120
tatgagacca agatgaaagt tatggaagag gcatggaaga aacagctctc ttctctgcag 180
ttgagtcttg tggttgctaa gaagagccta gctgctgatg acatgggtcac ccgagcagct 240
cggactgata ccaactccaac gcatgctcaa tacgactctg aagatacaat gtccacaggg 300
accataccc cagaagggac agagttgaaa taccaaaacc acaaccctga acctagactg 360
gcgacaggaa actcagatag gcggatagat gctgtgaatc acctagcaaa ggagtttgag 420
gacaggcgac aggtattcga cgacg 445

<210> 6244
<211> 358
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-054-Q1-E1-F2

<400> 6244

gtccggatat cacgggtcga ccggactcca gacactgagc tactatacaa aggctggcag 60
gaaaacactt gctgacaatt atgactatgt catgcatgga aagctttaca agatttcaga 120
ggacaattcc agcaaggata aaggacctac taaagtggag atctatgcat cttttggcgg 180

cctcctgatg ttgctcaaag gtgatccttc aagtgtgtgt aacctcgagc tggatcaaaa 240
gctgttcctc ctcatccgaa aggtgtaaac gtgtcatcta cctgataacc agcgcttgta 300
gttcactcaa ggctattaca agcctgtgat cgtttggagg ctaatcgtcc tacaccct 358

<210> 6245
<211> 435
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-054-Q1-E1-F3

<400> 6245

ggggagagag agattggtaa ctttgtgcat gagagagaga cagaggggtgg gggaggagtc 60
agtcagccgt cgtcacatca ccctgcttcc aaatgacccc gcattctcta gcgcagtgtg 120
gttgccgtca tcgatctgct cgatgccctc tttgacgatt gaggtgttgt gcatgttggg 180
gtgcaaagaa gcacaagcga gagtggtcac cgtataacct tggatgggga tgaattgtgt 240
gctcgggtgt gtgtgtgtgt gtgtgtgttg tgctccatgt gtgtgtgtgt gtgtgtgtgc 300
atgtgtgtgt gtgtgtgtca gatattgaga gaaaaaacct aaggagagaa atgggtattc 360
acgaagagat tgtgcggggc ttgaggtggg cagggcccgg gtgacggtgt caaaatgtgc 420
gcgttgatgc atgtg 435

<210> 6246
<211> 420
<212> DNA
<213> Triticum aestivum

<223> unsure at all n locations

<223> Clone ID: LIB104-055-Q1-E1-A1

<400> 6246

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ggacagagag agaggagaga gagggaggga gaggggtaga gtgctggatg ggtgatggag 120
ttgcttctcg aagagtgggg atgtgtttct gtgtgtgcct gtgcgtgata gagctgtcgg 180
gacgcatcca tggatgatga aggggaacca tgtgtttggt aagcaaacct aactagatcg 240
gtagatcaat tgttgtttgt cggaggaagg gagagacata actaatgagg tagatcgatc 300

gacgcgtggg gaaaaacgag ttataaggac ctagctagct atatgtatag cgggagatcg 360
gtcgggtgtac gtccatttgt tagaggcaaa taaggcccg cgagacggat agacagagag 420

<210> 6247
<211> 423
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-055-Q1-E1-A2

<400> 6247

cgggccagaa atccccgggc gacttccatc aaaacgatat tcatcatctc atcgaaagac 60
gggacacctt tgccctctatc aagtggatc agatttccag gttgctcggg gagattttac 120
agtttttcgt agtttagatc gagtctgttc ttcataccta cagtccacga aaaagccaca 180
aaaaaaaaatt aggggttagtt catcatatcc gaaccaatct gagcctttgc ataatctttt 240
tagggttttt gctttgttga atttgcggtt gcatcgctgt gtcaagttgc tggctcttaga 300
gtctagtctt ttagagtttc gaggctctgt cataagttgt cacgccgccg ccgcaccatc 360
atcatcgctt tgccatctac caccattgct tatccgcaa cgctttgaat ccgtatccat 420
ata 423

<210> 6248
<211> 433
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-055-Q1-E1-A6

<400> 6248

gtaccgatct acaattcccc ggccgacggg atggacaagg gggcgtggag cgaggagagc 60
aggaaaggct acaatctcgt ggatgcagtc acgagggtgca cgggtgcagg gtatccgaga 120
gggtggacgg cgatcttcat cgcgctggac aacgtgggga tgtggaacgt gaggtcggag 180
gattgggtgc gcaggtaact gggccagcag ttctacctcc ggggtgtacac gccggcgcac 240
tccgtccgag acgagctcac cgtgccgacc aacgcgatcc tctgcggccg cgctgccaac 300
aagagccgcc tgccattctc tcagtagtga gcaactgagca gccgctggca gggaatgatc 360
caattgtatc ggagtattag tagtggtata tgggtgtgcaa gtcgaactgt cgaagactta 420

gtttggctgg tta

433

<210> 6249

<211> 483

<212> DNA

<213> Triticum aestivum

<223> unsure at all n locations

<223> Clone ID: LIB104-055-Q1-E1-B10

<400> 6249

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ctctgcaccg gcaacttcgg tgcgtacctg ctcgctgcac ggtggtatac ctacaagaag 120

accgctgact aaacctggcg atcactgtgc cgtatgtgct aggggtacttc tttgatgcaa 180

taaacgtgta attgggaaag ctacctgtgt tgcggcaaat cttgaaggaa ctctgctcat 240

agaagattca gaatcgttga tctagaaaaa gttcgtcagc agtctggaaa attcaggttt 300

cagcaccgac tcctgttggg cgcgcgagg agtcgggtag gcgcggcagt aatgcctaaa 360

agcaagggaa actggccggc caactctggc gcgagcatgc tttttactct ttattaatct 420

tttaatcggg ttttctctga ttttttttgc gaatcttgat gttttaaacc ctttttaaaa 480

atc 483

<210> 6250

<211> 361

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-055-Q1-E1-B6

<400> 6250

gtaccgatct agaattgccg ggccgacggg tgaagaaatg ccaagacatc atcttgttgc 60

aaatacccca cccactctc tgcgagattc gctaagttcg ttgtgcatta catactggaa 120

tgcgttagtt acctagttac gatcgacta gaacaacatt tgtgtactga gtattcggac 180

aaagtttgtt tttaaagtgg gcaacttttt tgttaaaaaa aaaaaaaaaa aaaaaaaaaa 240

aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaca 300

aaaaaaaaaa aaaaaaaaaa aaaaataaaa aaaacaacaa aaaaaaaaac caaaaaaacac 360

a 361

<210> 6251
 <211> 458
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-055-Q1-E1-B8

<400> 6251

gtaccgatct agaattcccg ggccgacggg gatgcgaagg ttccggcaga gaaagccgct 60
 gccgctgctc ctccagctgt gacctacgcg gcgaagggtg cccaaacagc agcggccgag 120
 aagaagcctg tggccaccga gaaaaagcct gtcgtcgcca acggtgctgt caagaccggt 180
 gtagctgctt gatcgcatc ctgatcctcc cagctagcca tgaggaacaa acggacgggtg 240
 ctggcgaacc aggcgagaca tgcaggggtcc caagtaccga tcaccaaagg tggctggaaa 300
 gcgggttgga tagttaggtt tattccctag ctctctttt cccctgtcat cgtcgttaata 360
 accgtaattc aatttggtta gctctaaaga ctctctata gtggtatcat cggaatcacc 420
 agaaaaagag aaaagagaac ctgtggcaag acaaagggt 458

<210> 6252
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 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-055-Q1-E1-B9

<400> 6252

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 tgcatgggac accaaacaga ggatgtcatt gggttttgtg ttgacttcat tcttggcctt 180
 aagaagatag gtctccctaa atcgcggtat gatgggagac tgattggaaa aggcacgcta 240
 ggagcggact caataatatg cagggacggg cattcttgggt ctcaagcaca ctacacagtt 300
 ctacagaact ctaccttgggt gaccccgat gtcgatgaac acaagaatag tctgcactcc 360
 aaacacccgg agcagtgtga cgactggatt acatgtgaac acatcaggac tttcagcagt 420
 tggttggaaa cacgtctcag aggtgacaac actgtttgtg atgagctgta 470

<210> 6253
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 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-055-Q1-E1-C7
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 gttttgcatg tagtctagtc tagtgtggtg ttcgtccgac gaaggcttca ggtgagcgcg 180
 ccaaggaggt gagatgccag gatgccgtgt gaggcgggtga gcacggcgag atgccgatgg 240
 tgctgcgtga gaagcggcaa gacatatcag aggtggagc cgtgatggac tgcataaat 300
 tgggtcgggt gaaccggccg gtcgttctgt ttgttgact agctgttcat gcgtgagttc 360
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<210> 6254
 <211> 490
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-055-Q1-E1-C9
 <400> 6254
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 aatctagggg cctgtttgtt cttggcctcc ccatacctct cgttccatgg ggatctgtgg 180
 ttggattgga taaaagatgt cgtgtgtgtg tgtgtcttca ggtcccttgg gttcccaccc 240
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 catacccaca gataaagatg caagaattta atcgtggagt tgccattgga caagatggcc 360
 agcctcctcc taccgtccag tgctctcca tctactctc tttcaacctg tcatgcacta 420
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 ctttcggcac 490

<210> 6255
 <211> 418

<212> DNA
 <213> Triticum aestivum

 <223> unsure at all n locations
 <223> Clone ID: LIB104-055-Q1-E1-D1

 <400> 6255

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 ttcacttata ttattttgag agtcttttag aacagcatgg tattttctat tttcataaag 180
 ttggctcctag aatgatgagc atccaagttg ggtataataa aaactatcat aggaagtga 240
 ttggatgcta tgatcaactt gatacttgat aattgttttg agatatggag gtagtgatat 300
 taaagtcatg ctagttgggt gattatgaat tcaaagaatg cttgtgttga agttagcaag 360
 tcncttagca tgcacgtatg gttaaagttg tgtaacaaat ttgaagcatg aagtgtac 418

<210> 6256
 <211> 484
 <212> DNA
 <213> Triticum aestivum

 <223> unsure at all n locations
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 <400> 6256

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 tcgtcttcat catcattgtc tactccgtcg gctgctgcgc cttcaggaac aaccgccgcg 180
 accaccgcaa cggcggcggg tacaagcagc agggcgcgta cgctgatcg tttggctcgg 240
 ttattttattg cttggattgg atggatgcga tcgtcgtgtc attttcattc atcgtcgtgc 300
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 ctactagtta ggttctatac tccgtgggtca tgangagggt tgtgtatata tcttttctgt 420
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<210> 6257
 <211> 440

<212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-055-Q1-E1-D5
 <400> 6257

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tttcactaac ggagcttatg agatttcctg ttgagttttg tgttgtgaag ttttcaagtt 180
ttgggtaaag atttgatgga ctatggaaca aggagtggca aaagcctaag cttgggggatg 240
cccatggcac cccaagatat tcaataatag ccaaaagcct aagcttggcg atgcccgggg 300
aaggcatccc ctctttcgtc tttgttcatt ggtaacttta cttggagcta tatttttatt 360
cgccacatga tatgtgtttt gcttggagcg tcttgtatga tattagtctt tgcttttttag 420
tttaccacaa tcatccttgc 440
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<210> 6258
 <211> 456
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-055-Q1-E1-D8
 <400> 6258

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ggttcttcaa agggttacat gctcagatac taaagacagt tctgagctcc gcattactgc 180
tgatgataaa agagaagatt tcaaagttca cttggatctc gctgcttgcc ctgcggcgat 240
atctctttgt ttctcggaag agaatcaaga gtgcatagtt gtatcatgca tatgtcagac 300
ctgagaaaac cagtctaatc gtccactggg atttcaagat cgtattatac caaataacag 360
aagtacagaa gcagaacagc acgatcatct tgagagcgcc atggaatgtt ctgaataaat 420
ttgtttgttt ttccatgtag tagctctgaa catctg 456
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<210> 6259
 <211> 416
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-055-Q1-E1-E2

<400> 6259

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caatactgtc catgaggggtc gcattctacca gctgaagctg ttctgtgaca aggactaccc 180
tgagaaggca ccatctgtta gattccattc aagaatcaac atggcttgtg ttaatcacga 240
gactgggggcg gttgacccaa agaagttcag ttgcttagca aactggcagc gggagtacac 300
tatggaacat gtcttgaccc agctgaagaa agatatggcg gcgacgcaga accgcaagct 360
agtgcagcct ccagaaggga cattcttcta gcgggggtgtt tgctggccca tctcca 416

<210> 6260

<211> 429

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-055-Q1-E1-E5

<400> 6260

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gtctggagtg acgctgccaa ctctctcttt gaagatttga aaagacagct tgctgagcca 180
cagttttcttg ctgccccctg tgagaaggag ccgctattgt tatatgtggc tgctaactca 240
cggggccatca gtgtggccat tgttgtggag tgcaaggagg ctggcaagga acatccggtt 300
caacgaccgg ttactacgt caatgaggtg ctatttgaat ccaagcaaag atatccacat 360
tggcagaagc ttgtttatgg ggtgttcatt gcaagccgga agcttaagca ttacttccag 420
ggtcacact 429

<210> 6261

<211> 434

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-055-Q1-E1-E6

<400> 6261

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 gctatcacta catgcatatt tggccggtgg aggctctaag tttaatgttt gcataaagcc 180
 gattttccct acaacaaagg aataactttt atttgctacc aagttgaatt acccatattg 240
 agaaggtttc tccaactcaa tcccaaatta ccaagtataa aataactaacc caacaatttc 300
 attagacaga atgatgagat taacatataa tccaaatacc agatactcaa gatgtccata 360
 actggggaca cggctaacca tgattagttt gtacactcta cagaggttgc gcactttttc 420
 cccacaagac tcga 434

<210> 6262
 <211> 419
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-055-Q1-E1-E7
 <400> 6262

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 atatgtaaat tgtccagagc tgagtgatct gaacctcaac tcttgcataa atctgaatcc 180
 agaacggttg cttcttcagt gtccaagctt gaaagatgtt catgtcactg gatgccgtga 240
 catgttgatc ggagcaatca gaaaccaggt tctgaatgag tttgcagcag gagagcctcg 300
 catgccttgc aagcgccttg ctgatggctc gaagcgggtg caagtccttc agttcatgcc 360
 agaacagcag tttgaggacg agaaatggtg cggcgagtgc cggcgaagcc agtgcgccg 419

<210> 6263
 <211> 466
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-055-Q1-E1-F10
 <400> 6263

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atgaacatag cacaaatgtc cttagaagat tataccatga ctattatttc gttcgccaag 180
 aaaatctttg gcgacaaaat gcaactgaaga ctctacctgt tctattggac tggtcggata 240
 tgttggcatg cggggaagat cttggcctta tccctgcttg tggtcaccct gttatgctag 300
 aactcgcgtt gattggattg cgtatccaga gaatgcctag tgaaccaggc ttggaatttg 360
 atattccgtc caagtacagc tatatgacgg tttgtgctcc ctcatgtcat gattgctcga 420
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<210> 6264
 <211> 416
 <212> DNA
 <213> Triticum aestivum
 <223> unsure at all n locations
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 <400> 6264

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 cccaatcac gatcatcaca acaaatagta gtcatagcaa aactagcatc cccaagcttg 180
 aggttttgca tatcattagc acaattgtca ttaagagaat ttatgatagc atcatttcaa 240
 tcatgctttt catcgaagga actatcaagt acgggtgcaa tagcaacaat ctcatgttta 300
 acataaggaa ctatagcaaa ttcattattca taaatattgg catcatggcc acaagaatag 360
 caagaatcat gatcatcaag ggatatttca atcatatctt cggaatcaca attatc 416

<210> 6265
 <211> 439
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-055-Q1-E1-F5
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 ccttacaaca cgctgatatg caaattgcgg ctgcgcgggc acataccggt gcaccaaadc 120
 gagtctaagg aatctgtgca acagggtgtg caacacgtga tgccggcaat gcagctgctt 180

gccccccggc accgcgggca acgaggacat ctgcccctgc tacgctcaca tgaccacgca 240
cgaaggccgc tatagttgcc cacgatacaa tcgccatctc cacggtcaat cacgactact 300
acataatcga tcgtcatggc ctctcaatta atatcacatc cacgatgagc gacagctaga 360
ctagcatgaa gcacgatcga tatgatacat gtactactca agctagtgtc gcaaactatg 420
taccttgtgc ccaccata 439

<210> 6266
<211> 414
<212> DNA
<213> Triticum aestivum
<223> Clone ID: LIB104-055-Q1-E1-F8
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gcagcgacag cgacagcgac tgagccagct ccggcccgct gcagtgcagg ggagatgaac 180
gcgtgggtta atttggagcg tgtggttagca tatgtatgta atgcttgaca tgtctcatgg 240
atcttgtaat gtaataaccg gctgcactgc atgggtgcttg taataataac gttaaggaat 300
ttccattggt aacaaaaaaaa aaaaaaaaaa aaaaaaaaaa acaacaaaaa acaaaaggaa 360
aaaaaaciaa aaacaaciaa aaaaaaaagc ggccgccta aaggatccaa gctt 414

<210> 6267
<211> 273
<212> DNA
<213> Triticum aestivum
<223> Clone ID: LIB104-055-Q1-E1-G1
<400> 6267

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aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 180
aaaaaaaaaa aaccggccgc caaaaggat caaagcttac gtaccgtgc atgcaacgtc 240
aaaactcttc aaaagtgtca caaaattca att 273

<210> 6268
 <211> 421
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: LIB104-055-Q1-E1-G5

 <400> 6268

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 gcacttcggc tegtcccgcc ctcgagcgat cctcatcttc ggggaactcg ctggacccaa 240
 aggtgatgga caatgggtcc cttccgacgg cctcctctcc cagggccatg gatgacacca 300
 aggtgttgtc ccaaaggatc ccaggctagg gagagacgca tgaggccttc agggcggtga 360
 cagaaggcga gacctcgacc gcctgacaca tgggggagaa gatcccatgg agaccggcga 420
 t 421

<210> 6269
 <211> 180
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: LIB104-055-Q1-E1-G6

 <400> 6269

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 accttactta cccttgcatt caacgtcaaa ccccttctaa actgtcacca aaattcaatt 180

<210> 6270
 <211> 455
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: LIB104-055-Q1-E1-G7

 <400> 6270

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gaatatcttg catagaaaca tctcaacttc ggtctctcaa caggagagcc aactgaaagt 180
acttgaagag gagatgcaat cttttatcac ctcgaagggc aagggtgttg gaggacttca 240
aaatcaagta agagaaatga aagagagctt cagttcaagg attgcagaat tgcattggctt 300
tgctaattgag ctcaacctca aatcccaatt aagctctgag aagctgaatg cccaagttag 360
cgcacacaca tctgatctgg aggattgttt gaagggcctc ttagctgatg ctgaccaatt 420
actcattggg ctacaaaatg ggctccctca gcaag 455

<210> 6271
<211> 165
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-055-Q1-E1-G9

<400> 6271

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aaaagcggcc gctcaaaagg aatccggccg cacgtacacg atccatgcta acttacacgt 120
ctacgagact tcaaaccact tccatatcgt caccatctt caaat 165

<210> 6272
<211> 437
<212> DNA
<213> Triticum aestivum

<223> unsure at all n locations
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<400> 6272

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gtggagacgt acaagatcta catcttcaag gtgctgaagc aggtgcaccc cgacatcggc 180
atctcctcca aggccatgtc catcatgaac tcttcatca acgacatctt cgagaagctc 240
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atccagacct ccgtccgcct cgtcctcccc ggcgagctcg ccaagcacgc cgtctccgag 360
ggcaccaagg ctgtcaccaa gttcacctcc tcttaggctg ttcgtcttcc tgtgtctcgt 420

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437

<210> 6273

<211> 419

<212> DNA

<213> Triticum aestivum

<223> unsure at all n locations

<223> Clone ID: LIB104-055-Q1-E1-H3

<400> 6273

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gaaggcgaag tcggagtcgg agtggagata gatatggacy tgacaggtac agagagaggg 120

atcatcatcg tcgtagcagg agtccttagcg ctagtctga tgattacaag aggcgtggca 180

gagacagaag tcctagtcgt agcaggagcc gcagctacag tcctgatgat gacaggaagg 240

gtggcagaga cagtttgtcg cctgcacgca gaagcactag tcgctccoct cgcaagacac 300

cacctctcg caagacacca cctcctcgcg aggggtctcc tgctaggcgc aatgatgacc 360

ggtctctgt tgggcgcaat gatgaccggt ctctgttag gcgcaacgat gaccggtct 419

<210> 6274

<211> 436

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-055-Q1-E1-H5

<400> 6274

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attagagtca tgctagtggg tagttgtgga ttgtagaaat acttgtgttg aagtttgtga 180

ttcccgtagc atgcacgtat ggtgaaccgt tatgtaacga agttggagca tgaggtatct 240

attgattgtc ttcccttatga gtggcgggtcg gggacgagcg atgggtctttt cctaccaatc 300

tatcccccta ggggcatgca tagtattact ttgcttcgag ggctaataaa cttttgcaat 360

aagtatatga gttctttatg actaatgtga gtccatggat tatacgcact ctcacccttc 420

catcattgct agcctc 436

<210> 6275
 <211> 433
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: LIB104-055-Q1-E1-H7

 <400> 6275

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 gcatctatat acttggtaaa ggggtggatgg ctccggcctta tgccctggtgt tttgttccac 180
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 ggcccaacct tggttttacc atttgctca ccaccaccta cttttccctt gggagtcgct 360
 ctctcgaggg tcatctttat tttagcccc ccgggccaat gcttgtctaa gtgctggtcc 420
 aaaccgagcg atg 433

<210> 6276
 <211> 388
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: LIB104-055-Q1-E1-H8

 <400> 6276

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 ccggtgctca aggagcgggt caagcagttc aacgcggcca tggacgagat ccagcggacg 180
 cagggcgcggt ggggtggtgag cgacgagcag ctgcagtcgg agctccgggt atccatcgcc 240
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<210> 6277
 <211> 174
 <212> DNA

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tcatttaaaa ttttttgcac accaccatcg atccaaattg taacgtccct acataagcga 360
cgatgtctac cgtaccgg 378

<210> 6280
<211> 388
<212> DNA
<213> Triticum aestivum
<223> Clone ID: LIB104-056-Q1-E1-E7
<400> 6280

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tcctcgccat ggttcaatag gcgctcagca ccatggatca tcagtatact tccagttcca 180
gacagacaat aacctcgaag catcatcacc atcaccatca ccgagtcacc gttccatgcg 240
tcacctctc gagtcgatca tcgccatcac atcacaccat caccgacgac gactgttctc 300
tttcaccttg taattcctct cgtgccattc cattatttat tgattcgttc tgtgtaataa 360
gagcctctct tctgttccct aaaccggc 388

<210> 6281
<211> 249
<212> DNA
<213> Triticum aestivum
<223> Clone ID: LIB104-056-Q1-E1-G6
<400> 6281

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agctctaagt aaactgcgta taaatcatgt atgtataagg tatgtgttac tgatgttaga 120
agcaaaaaaa aaaaaaaaaa aaaaaaaaaa aaagcggccg ctccaaagga tccaaactta 180
cgtatgcctg caaacgaaat cataactcat ccagagagtc acataaaatt aaatcacagg 240
gccttttta 249

<210> 6282

<211> 374
 <212> DNA
 <213> Triticum aestivum

<223> unsure at all n locations
 <223> Clone ID: LIB104-056-Q1-E1-G7

<400> 6282

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 cacggcgacg gcaagaagga cggcgagcac aatgagaaga aggacaagaa gaagaagaag 120
 gacaagaagc acggcgaggg ccacaaggac gacgacggcc acggcagcag cagcagcgac 180
 agcgacagcg actgagccag ctccggccgc gctccggcag cagcgtgcag tgtaggcgag 240
 atcgatgaac gcttggggaga agtgtggcat acatatatgt tgcaggggtt ggagcgtgtg 300
 gtagcatatg tatgtaatgc gtgacatgtc tcatggatcn tgtgatgtat aataattage 360
 cggctgcact gcac 374

<210> 6283
 <211> 426
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-056-Q1-E1-G8

<400> 6283

gacggggagaa cgaaccggaa acccaagaag aggaagactg catctgacat gttccagctg 60
 gatgatgttt ctgagtcaga ggtageccct gactcccttg gccaatctcc aactatctta 120
 ttgacactga ctattgccag gacgacacgg gggccagcca ggccgtggaa gaagaggtaa 180
 ctatttcctc cgactcagcc cctttgccga gacaaaaact tcgaatggta acccggaag 240
 taaggttttc acaccatttg gcttatttgg accctcattt tcttttgaaa agcagcaaca 300
 tgagagtcac cgtcaggccc ggactaatga tgatgatgat gaaccacctt ccgaattaca 360
 aaaaactcat caaaaatgcc agaatgaggt ttctttcacc tttgtccttt tgttttatcc 420
 atgaat 426

<210> 6284
 <211> 431
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-056-Q1-E1-H1

<400> 6284

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ctgttcttgc gctccacgac gccattctgc tgaggagtac aaggaccaga taactcatga 120
gtaatatcaa gttcattaag atagtcatca agaccagaat tcttgaactc ggtcccatg 180
tcacttctga tgtgcttgat cttcacacca aagttggttg aagccctcga ggaaaatcgt 240
ttgaagactt cctgcacctc atgtttgtaa gtgacaatgt gcacccatgt gtaacgagaa 300
taatcatcaa caataacaaa gccatataga gacgcacatc ttgtaactgt ggaataatga 360
ttaggaccaa agagatccat gtgaagcaat tcaaattggc gagtggtagt catgatagtc 420
tttgctggat g 431

<210> 6285

<211> 432

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-056-Q1-E1-H5

<400> 6285

gtaccgatct agaattcgcg ggccgacggg gatcttaatc tttttgctat ggattggtac 60
acaagtttct taggacttcc taatttggtg gaatTTTTgc ggttccagaa gtatacgttt 120
gttacagatt actacagact attctatTTT tgacagattc tgttttctat gtgttgTTTg 180
cttatTTTga tgaatctatg agtagtatcg aagggtatga accatagaga agttataata 240
cagtagatat tacaccaata tgaatttaga atgagttcat tacagtacct aagtggTggt 300
tttatTTTct tatactaaca aagcttacga gTTTTTggt gagTTTTgtg ttgtggagtt 360
ttcaagTTTT gggtaaagat tcgatggact atgggataag gagtggcaag agcctaagct 420
tggggatgcc ca 432

<210> 6286

<211> 360

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-056-Q1-E1-H7

<400> 6286

cgggctcgacg ggggttcaca ttcagctggc tagacgcggt cggcgggaaa ccgagacaaa 60
aaagcctatc acttcgtttg gttgttgata ttcaagccta ggtataaata ttggcacggg 120
ataccccgaa ttccctgtt tagatggaca aggaatcagt ccaccgaatt ggcctcaa 180
attgggtggc ccgcttcgaa agcccgctc tctattccca aattcggagg gggcgagctc 240
gattttcggg gatattcggg aaccagcccg cgacttaccg cttcgaccgc tccagaaaag 300
gaagaggtgc actcgagcgg gagagaaggt gagcacaacg gcggcgcatg tcagacaact 360

<210> 6287

<211> 365

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-056-Q1-E1-H8

<400> 6287

acggggccaaa aaaaacaaaa aaaaaaaaaa aaaacaaaaa aaaaaaaaaa aaaaaaaaaa 60
aaaaaacatc aataggatga taaaaatata aagcctaagt aaaaataata tggaacagaa 120
taccocgaaa ttccctgaa aaaatggggc ccccaaaaag tttccagcct tggtttccct 180
tattggaagg ccaaatecct taaaaagggt ccccaactt aatttcaggg gcggttattt 240
aaaaattccg tgatgggaaa aacctaggct ttacacaatt taacccctt ggacaaaaac 300
cccctttcgc caattgggct aaadacaaag gggccccac cgttgcccct tccaaaaatt 360
ttccc 365

<210> 6288

<211> 457

<212> DNA

<213> Triticum aestivum

<223> unsure at all n locations

<223> Clone ID: LIB104-057-Q1-E1-A6

<400> 6288

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tggtcattca catggttagt cataaaatac tacataaact tgtagatcgc tgaatatgat 120

atgtttgatt ccttgcaata gttttgcgat ataaaggtgg tgatattaga gttatgctaa 180
 tgggtgaatg tggattagta gaaacacttg tgtcgagggtt tgtgattccc gtagcatgca 240
 cgcattggtga actgctttgt gatgaagttg gagcacaatt ttattttattg attgtcttct 300
 ttatgagtgg cggtcgggga cgagcgatgg tcttttccta ccaatctatt cccctaggag 360
 catgcgcgta gtactttgtt ttcaatggct tgtagatttt tgcaataagt atatgagttc 420
 tttatgacta atgttgagtc catggattat acacact 457

<210> 6289
 <211> 406
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-057-Q1-E1-B10

<400> 6289
 ggaatcccta tagtgagtct tattaagtta tcaaagcaaa gtattacgtg catgctccta 60
 ggggataga ttggtaggaa aagaccatcg ctcgccccg accgccactc ataaggaaga 120
 caatcaataa ataaatcatg ctccgacttt atcacataac ggttcaccat acgtgcatgc 180
 tacgggaata acaaacttta acacaagtat ttctcaaatt cacaactact caactagcat 240
 gactctaata tcaccatctc catatctcaa aacaattatc aagcatcaaa cttctcttag 300
 tattcaacac actcgtaaga taattttatt attaattctt tatacctagc atattaggat 360
 tatttaagaa aattaccatg ctatttaaga ctctcaaaat aatcta 406

<210> 6290
 <211> 122
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-057-Q1-E1-D9

<400> 6290
 agtgagtcgt attaggacag ctgcacggac ggagcgggtca ggggtgtcaag gcacgcggca 60
 gtcgaagtca tacagaattg cagcaccaca gttgaacagc gaccgcggga acgacgtgcg 120
 ag 122

<210> 6291

<211> 338
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-057-Q1-E1-E10
 <400> 6291

gtattagaat tagaagttgt aaatatgcat tgttgtatcg cgacctgaat gaaataaacg 60
 aaataatgct cttgttcaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 120
 aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaagcggc 180
 cgctcaaaag gatcaaactt aatttacctt tgaatgcaac ttcaaacttc ttcaaaattg 240
 taaccaaact taaattcaag ggccttcgtt taaaaacttc ttaacgggaa aaacccgggc 300
 ttaaccaaac taaatcccct tgaaaaaat cccccctt 338

<210> 6292
 <211> 312
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-057-Q1-E1-E5
 <400> 6292

tgagtcgtat tattgcagaa tgaaatccac tcaacctctt gcaatctcca tcaaaactgaa 60
 ctgaacaggc tgtaaaattt aaggagagaa ataagctgac agcctgcccc tttctacttt 120
 gcagcagcca gatcaatgtg catataactt gcgctcattc cttccaatat gtagtactct 180
 tccaagttta taaaatacga aagtggcccg gcacgcaccg ttccacaccc ccaaaggat 240
 caaacctaac aaacgcggcc gctccacatg atccaccctt acgtacgcgt ccatgccatg 300
 tcttacctct tc 312

<210> 6293
 <211> 408
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-057-Q1-E1-E6
 <400> 6293

ctaaagtgag togtattagc tcctatcttt cgtgaagcca aatagcttcc aggggtgctgt 60

caaggcaatg aacgaaagaa ttctctcggt ccttgatgcg tctggctctg gccgcgttga 120
tcttgggatg ttctttgcta gcattgctcc aatctgttct gggcctgtgg ataggcgcaa 180
gcgtgtcgtc ttcgatgcac tcctttggcg tcttgcaagc gaaggtggta ggggccagat 240
caggaggagt gacgcgctaa gttacattaa acttctccgt gccgtttaca taccaaccca 300
tggggctagc gacatgcttg aaatgcatgg ggagtctgac cctaccatgg tatcgtaacac 360
acaggttcct tgagatgttc aatgatcctg attggggttt tggaattc 408

<210> 6294
<211> 372
<212> DNA
<213> Triticum aestivum
<223> Clone ID: LIB104-057-Q1-E1-E9

<400> 6294
tagtgagtcg tattaactcc ctccgttcct agatgtaggg tgtacaattt ttgacagga 60
tattacagaa cgcacatgaa aggataattt cacaagtttt gggcgagggt acacctgact 120
aattaacatg agaaaataga ggagattgcc taatacatgg aaatgtaatt atatccctaa 180
aaaaattatc cacacgagtg gtgcaacgca atacacetta tatttcaggt tctttctcaa 240
aatcctatac accttatatc aaggaacgga gggaatactt acttactcgg tcaatcaatt 300
aacacgacat ccgctagccc cattacatgt gcacacggat cggcaatgga tcgatcaacg 360
gctggagacc gc 372

<210> 6295
<211> 148
<212> DNA
<213> Triticum aestivum
<223> Clone ID: LIB104-057-Q1-E1-F8

<400> 6295
gtgagtcgta ttacaactac gacaatgact acgacgtcga ctacgacgaa taccttgacg 60
accatcttgt tccaagaacg gggctcaact acagtctgtc tactagcacc agctccatcg 120
tacttggttc catcatcgcg tcgattgg 148

<210> 6296

<211> 382
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: LIB104-057-Q1-E1-F9

 <400> 6296

 agtgagtcgt attatgcaca gagaaggcat caataatgca acgaactctg taactgttgt 60
 tgctgcgctt tttgctaccg ttgctttcgc agctatatct actgtacctg gtggaaatga 120
 caacaatgga gttgcgattg ttgtccagac tgccctcttt aggagattct tcagctttaa 180
 tgccatagct ctgttcacat cattggcggg ggtcgtgggt caaataacag ttgtcagggg 240
 tgaaacaaag tccgagcgaa aggttggtga ggtgatcaac aagcttatgt ggctggcatc 300
 agtttgcaca accatttctt tcattgcctc atgctacact gtgcaaggcc gccatttcca 360
 atgggcagca atactggta gt 382

<210> 6297
 <211> 431
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: LIB104-057-Q1-E1-G11

 <400> 6297

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 cggcacaaga gaggctagca atggtggaag ggtgagagtg cgtatgatcc atggactcat 120
 cattagtcgt aaagaactca tatgcttatt gcaaaaatct acaagttatt gaaacaaagt 180
 actacgcgca tgctcctagg gggatagatt ggtaggaaaa gaccatcgct tgtccccgac 240
 cgccactcat aaggaagaca atcaataaat aaagcgtgct ccaacttcat cacaaagcgg 300
 ttcaccatac gtgcatgcta tgggaatcac aaacttcaac acaagtattc ctcaaattca 360
 tgattactcc actagcatga ctctaatac accatcctca tatctcaaaa caattatcaa 420
 gcatcaaatt g 431

<210> 6298
 <211> 446
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-057-Q1-E1-G6

<400> 6298

ttccccggggtc gacggggttct ccccagctac gccaaatctg gaggcacctt caccaggcct 60
attcgtaagt acggcaagca cgtgttctcc cacatatgac attctgctgc gtcaagcagc 120
cgctggcggtc tcagaagggt gcctactacg ccatccatca catgcggggcg atcgtaacggg 180
accatcatca acttctgcta ccgagtaaac tcaaagattg ggccgcgagc gtgtcggcaa 240
tccaggacgc ggacatcaga caagaattct ttcgcatcca gtcggagttt gcagaaatca 300
tccatcaaga tgtccttctg acctcggggc agttctacct cagaaatcaa ccgtccaaca 360
gtgacatcga cacaatgcta caaatgcagg ctgacaacgc ccgttatttc atgactccca 420
tgatagacgg cggcttcacg cacgct 446

<210> 6299

<211> 380

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-057-Q1-E1-H10

<400> 6299

accctatagt gagtcgtatt attactcttt acgaatctga aaattttgac atacttgaat 60
attgctatga aaactatgct cataatgtct atgtcaaaga atttattgaa agaagaccg 120
ttgcttctaa agaaaataat gatacgcatg aatctttaga taattgtgat cccgatgatt 180
tgattgaaat atcccttgat gaacatgatg ctttctatct ttgtggccat gatgccaata 240
tttttgaaga cgaatttgct ataattcctt atgttaaaca tgagatcatt gctattgcac 300
ccatacttga tagttccttc cacgaaaagc atgactgcaa tgattttact ataaattccc 360
ttgatgtcaa ttgtgctaatt 380

<210> 6300

<211> 421

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-057-Q1-E1-H9

<400> 6300

ggtctaaaat tcccgggtcg acgggttcct tgattgaaaa gtatgatatt actctttacg 60
 aatctgaaaa ttttgacata cttgaatatt gctatgaaaa ctatgctcat aatgtctatg 120
 tcaaagaatt tattgaaaga atgaccgttg cttctaaaga aaataatgat acgcatgaat 180
 ctttagataa ttgtgatccc gatgatttga ttgaaatatc ctttgatgaa catgatgctt 240
 tctattcttg tggccatgat gccaatatct ttgaagacga atttgctata attccttatg 300
 ttaaacaatga gatcattgct attgcacca tacttgatag ttccttcgac gaaaagcatg 360
 actgcaatga ttttactata aattctcttg atgtcaattg tgctaataat atgcaaaacc 420
 t 421

<210> 6301
 <211> 397
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-058-Q1-E1-A1
 <400> 6301

ggtaccggtc aggaattccc gggccgacgg ggatgacaag atgaagtaca ccatagagtt 60
 ccagaagcac aaagagggcg gaagcagtag cgctcctgct gccccagcga cagctgcgac 120
 ggtggtgacg agttcggccc cgacaggcag caccttcctt gccgttcagt aggcgcccgt 180
 gccgaaagaa accaggaaca agcttcccct tcggttcatt agcaccagca gcccttggca 240
 acatcctata ccatttggtt atttgtttcg gtaataccaa cctcattggt caaaagacaa 300
 aaggaaaacc aaaccgaaat aagtggctcc cctctgtgat ttcataagta cactggaaaa 360
 caggggaggt gccagattaa tagaaatccc aaacagc 397

<210> 6302
 <211> 438
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-058-Q1-E1-A10
 <400> 6302

gacgggccac cctaccatca ttgctagcct cttcgggtacc gtgcattgcc atttctcaca 60
 ttgagagttg gtgcaaactt cgccggtgcg tccaaacccc gtgatatgat acgctctttc 120

acacataaac ctccttatat cttcctcaaa acagccacca tacctaccta ttatgtcatt 180
tccatagcca ttccgagata tattgccatg caactttcca ccatgcattc cgtttatcat 240
gacacattca tcattgtcag attgcttagc atgatcatgt agttgacata gtatttgtgg 300
caaagccacc gttcataatt ctttcataca tgctactctt ggattattgc atatcccggt 360
acaccgccgg aggcattcat atagagtaat attttgttct aagtatcgag ttgtaattct 420
tgagttgtaa ataaatat 438

<210> 6303
<211> 429
<212> DNA
<213> Triticum aestivum
<223> Clone ID: LIB104-058-Q1-E1-A4
<400> 6303

ccggtcagga attcccggtg cgacgggtag tctattgttt tctttctcta acggagctca 60
cgagatttct gttgagtttt gtgttgtaga gttttcaagt tttgggtgaa ttcttttgat 120
ggattatgga acaaggagtg gcaagagcct aagcttgggg atgcccattg caccgccaag 180
ataatacaag tacaccaaaa agtcaaagct tggggatgcc ccagaaggca tcccctcttt 240
cgtccacttc catcggtaat ttacttgtag ctatatTTTT attcaccaac atgatattgtg 300
ttttgcttgg agcgtcttgt attatttgtg tctttgcttg ttagtttacc acaatcatcc 360
tttctgtaca cacatcttga gagagccata cattaattga aatttgttag aatactctat 420
gtgcttcac 429

<210> 6304
<211> 430
<212> DNA
<213> Triticum aestivum
<223> Clone ID: LIB104-058-Q1-E1-A6
<400> 6304

ggtacaggtc aggaattccc gggccgacgg ggattttaca gatgagtaca ctccggtttc 60
gcggggaaag aagggatatg agaaggagaa aagcatttcc aatagcaagg tgaaggcttc 120
taaagtacag aacgaagaaa ccggttctga tgatgaatgc aagccaaaat ctgagaagag 180

aagtccagct gcgggcaaac ccaagatttc caagattaag aaaccaaag gtgaatatga 240
 tgatacaaag gaggaaaaga aaataaaca ggaagttggt atcaagaaag atgaaacgaa 300
 ggctgctggg gtgaagaatg agggggcgac ttctacatgg ctgaaaccta tgatgtccat 360
 gtcctcggca tcgatctttc tatcaacatg gtttcgttcg caattgatcg tgccatcggg 420
 cgctcatgct 430

<210> 6305
 <211> 413
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-058-Q1-E1-A7
 <400> 6305

gaattcccgg ctcgacgggc aaccataatc tctacgtttg ttctccgcta ttagtggcctt 60
 tggagtgact ctttgttgca tgttgaggga ttgttatatg atctatgtat gttattattg 120
 ttgacagaac ttgcactagt gaaagtatga accctacgcc ttgtttccta ccattgcaat 180
 accattttacg ctcactttta tcattagtta ccttgctgtt tttatatattt cagtttacia 240
 atacctttat ctaccttcca tattgcactt gtatcactat ctcttcgccg aactattgca 300
 cctatacaaa ttactattgt attgggtgtg ttggggacac aatagactct ttgttatttg 360
 gttgcatggt tgtttgacag agaccatctt catcctacac ctcccacgga ttg 413

<210> 6306
 <211> 381
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-058-Q1-E1-A8
 <400> 6306

ggtacaggtc aggaattccc gagctcgacg gggaacgtaa tccccacggt acgccggttc 60
 caagttcagt atccgcccc gcattggcca tatcgccatc cgcaatgccg cgctaagtga 120
 gcacatgctt gccgtacata catgccgaag aactccacgc cggcggctcg ggtcgcgtct 180
 gccgccatgg tagcgtggc tgtcgctaac cgcgtgctcg aaaagctcgc gctggtgccc 240
 ctcaagtcct acgccttctt cctcgctcat ctacgatgt tcgggtacct cggcctgtac 300

gtttcaatac gctaagtgat gtaccgcgcg ggggtggtga ccctggacat gctggaactg 360
ccacagatcc ggttcgctgt c 381

<210> 6307
<211> 146
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-058-Q1-E1-A9

<400> 6307

taccggtcta gaattcccgg gtcgacggga agttataaga cgaccatcta gaaggagggt 60
gtgacgtcaa gcacaagcac tattatcacg ggaacatgct ataatgatgg cgccatgatc 120
ccattgagaa gtcgagggca cattta 146

<210> 6308
<211> 220
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-058-Q1-E1-B1

<400> 6308

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agaatgtcct taagcaggat agcagaggtc caagacgatc gaataagcac ggctccccgt 120
ctgggagttc ctaacgacac ctggatctcc ggggtcttca agtccttcca tccatacacg 180
gtggcatctg gcaccaccga tacaccatcg ggctgcacga 220

<210> 6309
<211> 231
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-058-Q1-E1-B10

<400> 6309

gacggggaaa cacactcaca atcaatgttc gccgcgatta gaggctttgg aatgccgccg 60
cgctacagga tgcaggattg cgtgcgcatg catgctaagt tcatactctt caaaaatgtc 120
tgcgaaatgc aagtaagagg ccgtcgcctt atacctacc aacgggggaac aatttacgct 180

cacctatatc aatagccatg cagcagatct cactttcgca atctaggata a 231

<210> 6310

<211> 445

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-058-Q1-E1-B12

<400> 6310

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tcaactctga cgactgtgca ggcaagatga tcataccctc gaaatcagta ctatctttgc 120

tatgctagtt tgctcgctct ttgctatgc cattgctatg atgcctacca attgcttgca 180

agcctcccaa attgccatgt caaacctcta acccaccttt atcctagcaa accgttgatt 240

ggctatgtta ccgctttgct catccctctt tatagcgttg ctagttgcag gtgaagattg 300

gaggtcgttc cttattggaa catcttttat ttacttggtg ggatatcatt atattgcat 360

gttatcttaa tgcacctata tacttggtaa aggggtggaag gctcggcctc tcgcctagtg 420

ttttgttcca ctcttgccgc cctag 445

<210> 6311

<211> 415

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-058-Q1-E1-B2

<400> 6311

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cacctcttct cgtcggccat caagcacgca cgtcgccggt cgcctccatg tcgccgcctc 180

tcgagagctt tgtgcgtgga agagagccgc ggggtgtgag aatgagatga aacacgttcc 240

aagggtcttg ctgcaaatgt atgtgtgcc ggttactggg tgggtcccat ggggtccaggt 300

ggcaacggtc tgccagtcaa cgcaactgca gcgagtttgg gacctgggtt gtacgccttg 360

aaaacatttg ggaccaatt ctatactttt gaagttttag gactagattg acaca 415

<210> 6312

<211> 171
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-058-Q1-E1-B3

<400> 6312

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aagtgaaaaa gattttgcaa caagcctgac atgcgagctc tacatgatcg aagcttattg 120
tgacatcaaa gcgacttcag agctcttaga ggaagacatc gcagtcaaag t 171

<210> 6313
<211> 426
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-058-Q1-E1-B4

<400> 6313

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ggacaagaag cacggcgagg gccacaagga cgacgacggc cacggcagca gcagcagcga 120
cagcgacagc gactgagcca gctccggccg cgtgcagtgc aggggagatg aacgcgtggg 180
ttaatttggg gcggtgtgga gcatatgtat gtaatgcttg acatgtctca tggatcttgt 240
aatgtaataa ccggctgcac tgcattgtgc ttgtaataat aacgttaagg aatttccatt 300
ggtaatttgg taccatcctt tttccaagc tttttgtgta tgtatgtatg tatgtggtgt 360
ctctgttcat ctctggatct ctccgaccga gcgtgattaa cggctggggg atcttttagga 420
atggtt 426

<210> 6314
<211> 428
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-058-Q1-E1-B6

<400> 6314

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cacaatcatc cttgatgtac acaccttttg agagagacac acatgaatta gaatttatta 180
gaataactcta tgtgcttcac ttatatcttt tgagctatat agtttttgct ctagtgcttc 240
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attcacttat attattttta gagtccttta gaacaacatg gcaattttct tttaggcata 360
ataagaactt tcatataagt gcattgaata ctaagagaag tttgatactt gatgattgtt 420
ttgagata 428

<210> 6315
<211> 354
<212> DNA
<213> Triticum aestivum
<223> Clone ID: LIB104-058-Q1-E1-B7
<400> 6315

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ctcagggttat attggatggg aatttatctt acaatacaac tacacctttc ttgaatcaga 120
ttcggactgt ttgcgtgaaa ttttgctcta tagctatctt tgggtggctt tctttgtttt 180
gctttatgtt gtatagtcag tagaaaactc aagcccatc atctaacaat tctgtagtaa 240
tgactgaaac tattcgagga caaatcttgg attggtgttg tcggttgaat ttagagttgc 300
atggttgaca cgggtcaacat ggcaaagaaa gtatagaaga tttgccaac cagg 354

<210> 6316
<211> 439
<212> DNA
<213> Triticum aestivum
<223> Clone ID: LIB104-058-Q1-E1-B8
<400> 6316

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ctacacttca catgtgtaaa tctgcacttg atgggtctcat tgcaggtctg gacaaatttc 180
cagaggatca agatatatat ggtgttctgt ttccattgg caacaatcat gggagctttt 240
cagccaatat agccaacat ttagccaacg atatcaatat ggcactctgat ggagagctga 300

tcttgataa acctagaatc aaagcattgt taatggcttc tgctgtggct gcttatgatg 360
 ataaagacat aaaactggat ataccgcag ttatattatc acatgcaatt cccctatttg 420
 ggatgatctc gtgtgcact 439

<210> 6317
 <211> 213
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-058-Q1-E1-B9
 <400> 6317

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 acttgttctg agaagctccg gtttgtcaca gacaaatact caaccttgca ccgaatgcga 120
 tagattttga attacaccat gttgaaggcg ctccatcata gcataccatg tatggctaca 180
 tcccttcgag tattggetta actaactttt agc 213

<210> 6318
 <211> 441
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-058-Q1-E1-C1
 <400> 6318

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 cgccagcacg acaggacctg cgcgaccggg tgaggaggcg taggagaaga aaatgggtgca 180
 gcacccactg tatttcgtca gcaacctctt gcagggggct aggtcgaggt actcaggtgt 240
 gcaaaagctg ctctttgggc tccttatggc ttcgaggaag ctgcgccatt acttccaagc 300
 gcacgaaatc acggtgggtca cccgcctccc attgcaacgg atactacaca acccagatgc 360
 gatggggagg atcgtagaat gggtcctgga gctgtcaagt ttcggtttga aagttttaaa 420
 gtacctccat gattcagagc a 441

<210> 6319
 <211> 430
 <212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-058-Q1-E1-C10

<400> 6319

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gcgagggcca caaggacgac gacgaccacc acaacacccat catcgcatcc cattagcatt 120
ctaccatttt cctcggagag aagtagccag aaacagcagc gccatggccg gcatcatgca 180
caagatcgag gagaagctcc acatgggtgg cggcagcgac gagcacaaga aggacgagga 240
gcacaagaag gcggaggagc acaagaagaa ggacggggag cacaagaagg acggcgagca 300
caaggagggc atgatggaga agatcaagga caagatcagc ggcgacggcc acggcgacgg 360
caagaaggac ggcgaccaca aggagaagaa cgacaagaag aagaagaagg acaagaagca 420
cggcgagggc 430

<210> 6320

<211> 411

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-058-Q1-E1-C12

<400> 6320

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cctgaaacct taatcatgct gacatcagca cagtcacct accatttggc gatgatgtag 180
gctccaacgg gacacgacat ccgtaatgcc ctggttgatc atgaccttat gtcgctactt 240
tcgcctaagg attatgtgat tgctttcaag caccatatca gagagcgac cgagatgcat 300
tagcgaaccc tccccgaaag cgaacttcac aatacatgct accagaagtc gattaagaca 360
cgatgggata tctgccacga atgaggcaag tacatgcacg ccaattcatt g 411

<210> 6321

<211> 406

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-058-Q1-E1-C2

<400> 6321

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gtggctcttc acgtcattgt caacattagg atctacggct gggcataata ggtcgcataa 180
ggacacattt aatgtgtcac attttctcca catcagctgt gaacactgtg catatcgtgt 240
catgctgcct gcgtttaaga cggttgtaag acagcgaagt gcttgataat gtaaactgaa 300
gaagtcatgt atcagatgta caaccgcac aagcatggag ccaaattcaa ttcaatggcc 360
gtcgttttaa aacgtccgca ctagaagatc caagcttaca tccacc 406

<210> 6322

<211> 354

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-058-Q1-E1-C4

<400> 6322

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aatgctgaag acgactatca tgaggctgac aaggacgata aaggatcagg agaactgtga 120
tcaaggcaac agtcatagac tgctacacct gatagcacag gaagatgcac tatcaggatc 180
agttgcctcc tcaagggtaa aatcaagcac tgtccgagct tagatcagtc atcttatgca 240
tatacattga acgtgcagtc ctcatTTgaa gacactaacg acacatacgc cattcacgac 300
ctggatgcat gtggattccg catcgtgaac ctgattagtc accatgtatc cgca 354

<210> 6323

<211> 419

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-058-Q1-E1-C5

<400> 6323

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gcagcgtaat ggagtgattt tcaaggctat tccaacttcc gttctctctt ggagatcttc 120
gtttcgggca gatatgcttt tgcttaagca taggatcaag gacaagtttg ctgatagact 180

ttctagttgg attgatcagt tcttaacata attatcatgt tgcctcaagg tttcactagg 240
 actggagttg ggtacgggtga tctcttgttt atttgggaca tctgtaaata tttttattgc 300
 tttaatatat ttaccgtaga acgattgttc tacggttttc ggttcaaaaa aaagggtgcaa 360
 ggctgggtcat gcgtggatgc ctacattcca gggccaattt catcctgttt ttctgggtcc 419

<210> 6324
 <211> 243
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-058-Q1-E1-C8
 <400> 6324

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 aacctttgta tgaatacgac acagtgatgg gataatgctc ccccttttat gaacttctac 120
 tactttgtca acaacaagtt gaagtagaaa aagtaagtaa aaccggccgc acgagaggat 180
 tcaagcttac gtaagcgtgc atgcaacgct agagctcttc aacagtgtca ccaaaattca 240
 att 243

<210> 6325
 <211> 410
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-058-Q1-E1-C9
 <400> 6325

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 taaacttgga ataattatgg tgatcaaatg gctcaatgaa atgatgccaa attgtgtgga 180
 gagatgtttt atgggtataa gaatgatctg ggaatttatc atgatttttg aagcaatata 240
 aaatatactt gcttcataac ctaacaatat tgccagaatc aatgatttgc ccctgtgctc 300
 acatagataa ttgtatgagg ctgacaatgc gtggaatatg ttaatatgat cacattaacg 360
 agtgtgcaaa agttcagcta atttgggtac tcttagctag tacttccttc 410

<210> 6326

<211> 413
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: LIB104-058-Q1-E1-D1

 <400> 6326

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ccggccccgcc gccatacgcc cgtcaaaaaca ccgagacctc cccctagacg tacgccgaca   120
attgccatgc atgcatgatg ccagtaatat ggtatgcgaa ttaactaaag aagaagccac   180
atatatcatg gaggtaccog gatatataga tagtgctcga tccataactt atagctggat   240
ttcaacactt atatatctag atttacgccc ctcaaaaaat atatttagat ttatgttatt   300
acagtagaaa caatgtcatg tatgaccac ggtgattgta cttatactat tcatgcaata   360
tatatgtata taggaaaaaa aaacaataga catcaaaaaa aaaaagcggc cgc           413
  
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<210> 6327
 <211> 326
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: LIB104-058-Q1-E1-D10

 <400> 6327

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tccatctatc gtcgctcgcc actgctgcaa tcttcctgca cctgacggat tccgccgggg   120
gaccagtget ccgccctgtt tacgctgcta actccccaaag acttccttcg attacccccg   180
ctcgcttcac tccttcgacc gatagtgtct ggtcaccttc ctccagataa acattaaatc   240
tcaatattca gatgtgtgtc atttgaaaat atatcaaaga tgtgcttagc ctaacatggt   300
tgcgctctag tagatacatg cataca                                     326
  
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<210> 6328
 <211> 454
 <212> DNA
 <213> Triticum aestivum

 <223> unsure at all n locations
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 atgaaagctc cgtctaagga aggctgactc aaggatccat gcccttgatt cttgctccga 180
 aagtggacct gaaaaaacta caagttcgac gattgcgcga ggaacacaat gggttttctc 240
 tgaatcatct ggtaattttc ccagtcttgt acatgttgtt ctttgaatca tgtgggtattt 300
 ctaagtgcac tgcattgtgt gtgggtggata caaaaagagg acgcgacgac tgatggctgt 360
 tctctttaca cttggcgtgg ttgacaggct atggagcang caattttgct atttgggtcaa 420
 tgatggagat gaattcggga gagatgtgga cggg 454

<210> 6329
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 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-058-Q1-E1-D12
 <400> 6329

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 gttaagtttt catggcagcc acttaaaggt tctcatcctc tcccatcccg atcgacttac 180
 aggcgccgct gtaaagccat tatcatgatc taggaaacca cttttcaagg gtgtcgcgat 240
 atccctatgt ttcaccgaca acgtcttgaa ttatcagctt ctaccggcaa tcagtcccat 300
 aggcgatttc ggcattattag gattacagca gctcctggga gtctgcatcg cctattataa 360
 cctccagata cctatgccca gattataaaa gctccac 397

<210> 6330
 <211> 419
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-058-Q1-E1-D5
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gcagctgtga ctatgagttg gtggagatat tctgccatac taattcgtcc atacgagttc 180
 ggctgctgag gaaggttgat ggttacaggg cagtatttac aagggagaca actgtggaga 240
 ccataggcaa ggatgagtac ctgaagttct cccaccagat cccttgcttc catctgacaa 300
 acgaaggagg aggcaagctt cggggctggt tggagctcga tccttattcc gtgccggagg 360
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<210> 6331
 <211> 345
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-058-Q1-E1-D6

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 atactacaag tcatcactgt cttcagccat cattctcagt cactgaacca atcaaatcaa 180
 tactatTTTT catcaatggt ttcttgaggg tggtagttgt tcattagtaa agaactaagc 240
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 aaaaaataca ctcaatgtgg tccaatgcac agattgtctc accat 345

<210> 6332
 <211> 441
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-058-Q1-E1-D7

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 aagctgtgac caatatgtac acggccgcat gttgcgttgc gtgggtgctg tcgccgttct 180
 tgtgtactcc attgttgtgc tgtgatcatt cttttgaata aatcggctcg atcttcaaaa 240
 aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 300
 aaaaaagaca caccaaagga tcaaaaaaaa aaataacaat aaaaacaaaa tcaaaaaaca 360

atcaaacaca aacacataaa ttcaaaaaaa caggcggtcg ctaaaaaaag gggggccccc 420
caaaaaatcc ccccttctc g 441

<210> 6333
<211> 447
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-058-Q1-E1-D8

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taggcaaatt ttttgtcatg gggttgt 447

<210> 6334
<211> 462
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-058-Q1-E1-E11

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gaacatcttg gaagggctat gcggcaatgc caacagcagc tactggagat ccgaagatga 360
cgtgggcatg gctgctggcc tgggaggcga gacagagtcc cacccttatg tctccttcac 420

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462

<210> 6335

<211> 404

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-058-Q1-E1-E4

<400> 6335

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gggattccaa gaggaaagtg aaccgcacgc actaccggga gccgagggttc tacaccaagg 180

tgtttaagga atgccactcc tatgaccaag aggggaattc ctttgagctt tctctggtaa 240

cttccaagtg cattggagct tatgtgaaaa gcaagaagaa ccagaaccag atatgttggc 300

tgtgggagaa ggtcaagtgc acagaagaca aaggctttca gagattcctg gacaatgtgc 360

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<210> 6336

<211> 343

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-058-Q1-E1-E5

<400> 6336

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atataggaat agtggaccgt ggacgctagc gccatcgtga ataaaggtta tgctctcggg 180

aaattcctta gtgaagactt gtctgtataa gaaattcaag cactcgatag ggcacgaata 240

cgaacaagag ggagatataa cacgaactct gcttatgtgc tccgctgtgt ttcgttggtc 300

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<210> 6337

<211> 445

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-058-Q1-E1-E6

<400> 6337

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gattccgtct gcgcctccaa ctctgcccac aacaggcgaa gggctctgtg tgtgaaaatt 240
tacgatgata tgctcgtaaa tattaaattc aagagatctg aggtgatgaa aggtgagaag 300
atgttacaag ccaggtgctt gtggagaggg cggagaagag cggaaaaaaaa aagagatgtg 360
aacatctaga ggcttttgcc atgttggtgt cgctcgcaag gcaagccgcc accaataata 420
aaaagttttt ttttgcctcg ggggg 445

<210> 6338

<211> 426

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-058-Q1-E1-E7

<400> 6338

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acctcgcgat tgtggtgcct gacgctgacc tcgcgttttg gtgcctaata atgacctcgc 180
gatggtagtg gcgccggcga ttccacagct gggcgacagg accatgccaa ttgtggtaga 240
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ggaggagtga agatgttaag aaaatgaagt ggtaatgtta agcatgttg gttaaagctt 360
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<210> 6339

<211> 439

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-058-Q1-E1-F1

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<400> 6339

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accgggacta aagggtgagc ctctggcccc gattcaagcc accaactggg accaatggtg 180
gtggggccggg agcgaggccc attgggtccc gtttgtccca ccaaccggga ccaaaggggc 240
cggacgaacc gggaccaatg cccccacgag gcccgcatg cgctggccg cacgaaccgg 300
gaacaatgct cacattagtc ccggttcgtg actgaaccgg gactaatgtg aatattgccc 360
tgtgaccaa gcccagtttt ctactagtga attctcatgg agaacgaaac atttgaccat 420
ctagggcggtg cctccttcc 439

<210> 6340

<211> 470

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-058-Q1-E1-F11

<400> 6340

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tagaacgctt caaaatttca taaaaaagat taagaaatga aaataggaag tccatattat 180
aaagggtggag aagttcgatg attatagaaa attcagattt tccttggtat taaaaaatgg 240
aaacaagaag ttcaaaaatg aaataataag aatttcaact tttaaaaaata gagcgcttca 300
aaattcataa aagaggatta agaaattcag attaaaattc ataaaaaact cagatatctt 360
catgtaacca agaaacgttc agattgataa ctaacagaag ttcacgtact acgcggtgtg 420
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<210> 6341

<211> 311

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-058-Q1-E1-F3

<400> 6341

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 tcttatgagg gctggcttct ccatcctcct gcgttgaatc ctgctggagg gggttgtctt 180
 cggaactgtc cggggtgtta ttgtctcaa aaaaaaaaaa aaaaaaaaaa aaaaaaacg 240
 gccgctctaa aggateccaag cttacttacg cttgcatgca acttcatagc tcttcaaaag 300
 tgtcacctaa a 311

<210> 6342
 <211> 224
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-058-Q1-E1-F5
 <400> 6342

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 accgaaaagt tccaagtttt cagttccaaa ttttagcatt ggaagtctca aggctcacat 120
 cgtactaaaa ataatgccga aaagacggat tgaaacataa ccaatccaac cgggataagg 180
 ccaaggggaat ccgggcccaa aatccccaag aaccaattag gcaa 224

<210> 6343
 <211> 447
 <212> DNA
 <213> Triticum aestivum
 <223> unsure at all n locations
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<400> 6343
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 caagaccccc gcttagaagg aataagatca taccacgaag ggataagatc aagatcccta 120
 aaaagggggg ataacaatcg gtggggaagg aaatgatggg atttctttcc tcccaccttt 180
 gccaacgccc caatggactt ggaggggaag aaaccagccc cctccagccc tatatatagt 240
 ggggagggcg atgggagctt cacccttgcc cctggcgag cctccccct ctctaactcc 300
 acctcctcct cggtagtget tggegaagcc ctgccggaga actgcaagct ccaccaccac 360

gtcgtcgtgc tgccggagcc ctccctcaac ttctcctctc nccttgctgg atcaggaaag 420
angagatgtc ccaaggctgt acgtgtg 447

<210> 6344
<211> 447
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-058-Q1-E1-F7

<400> 6344

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gcatgcacgt atggttaaag ttgtgtaaca aatttgaaac atgaagtga cctggcttgt 120
gcatccttat gagtggcggg cggggacgag cgatggcttt ttctaccaa tctatcccc 180
taggagcatg cgcgtagtac ttggtttttg atgacttcta aatttttgca ataagtatat 240
gagttctttt gactaatgtt gagtccatgg attatacaca cttttacctt tccgcctttg 300
ctagcctctt cggtagcgtg cattgccctt tctcatcttg agagttgggtg caaacttcgc 360
cgggtgcatcc aaaccccggtg atacgatacg ctctatcaca cataaacctc cctatatctt 420
ccttaaaaca accaccatac ctaccta 447

<210> 6345
<211> 454
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-058-Q1-E1-F8

<400> 6345

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tcatgcacaa gcatccttgc atacaaagga ttttctaga attttctaatt attgagcatt 180
cttctgttaa gcgtgccgt actatctttt tggctcatga gtttagattc ataataaaag 240
aggccaaaga aatatttgcg cattataggg tggacgcttg ccgtcctccc atagagtcta 300
tcctttttta tcaagaagaa ataatgcgtt ttcaatctct agactatgtt tctttcaatg 360
aaaatcttag aaaaagggtt cttccaatg ttttagttga tagaatttct gagcttaatg 420

atgatttggg caattcgaaa taatgaacta ggat

454

<210> 6346
<211> 447
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-058-Q1-E1-G10

<400> 6346

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ttgatggatt atggaacaag gagtggcaag agcctaagct tggggatgcc catggtaccc 120
caaggtaaaa ttcaaggaca ccaaaaagcc taagcttggg gatgccccgg aaggcatccc 180
ctctttcgtc ttcgctctatc ggtaacttta cttggaacta tttttttatt caccacatga 240
tatgtgtttt gcttgtagcg tattgtatga tttgagtctt tgatttttag tttaccacaa 300
tcatecttga tgtacacacc ttttgagaga gactcacata atttgaaatt tattagaata 360
ctctatgtgc ttcaattata tcttttgagc tatatagttt ttgctctagt gcttcactta 420
tatcttttag agcacggtgg tggtttt 447

<210> 6347
<211> 452
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-058-Q1-E1-G11

<400> 6347

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tgatgaacgc ttactgcgac cgtcagtctg tggatctcaa ctccactgct ttcctttttg 180
atggtcgtag gctccgtggt gagcagaccc ctgatgagct tgagatggag gaaggcgacg 240
agatcgacgc catgcttcac cagaccggag ggtgctttcc tggcccttag aaggagcttg 300
ctgcagcctg gctgttctat gtcgtatgct accttagaa ctagagtaaa atgtaggaag 360
tgaaagaact tgtgaggcta tggttctgtg ccatagcctg aggggggggtc tggaggtgaa 420
acaacatcgg agtactgttg atgtcgtgac tg 452

<210> 6348
 <211> 392
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-058-Q1-E1-G3

<400> 6348

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 ggtgtcctgc gccgacatca tctccctcgc caccgcgcac tccgtgaaac tcgccggcgg 120
 ccgggactac gcggttccca cggggccgcg cgactcgctc gtctccaacc gcgaggagtc 180
 cgacgacaac ctgcccggcc cggacatccc cgtgccccag gtcacggccg acttcgtgaa 240
 ggccggcttc accgccgagg agatggtgct gctgctcgcc ggccggccaca gcatcggcaa 300
 ggtcagggtgc atcttcatcg agcccgcgc ctcgcccatg gaggggggct atcacgccag 360
 catcagcaag ctctgcgacg ggcccaaccg gg 392

<210> 6349
 <211> 412
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-058-Q1-E1-G5

<400> 6349

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 ggtgctgact agccagcatc ttctttgctt ttattctggc cggatttggt gaataaatac 120
 gcgaaacaaa ttaacaacga gtgtagcagt acatccaatt gaaatgtttt atgtggcctt 180
 ggcaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 240
 aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaacgg ccaccacaaa ggatccaccc 300
 aaaacgtcaa catacaaaaca acctcaagcc cctctcaata gggcaaccaa aattcaaaaa 360
 aaaagggcgc ccttaaaaaa gttcctgtct ggaaaccctt tggggtaacc ca 412

<210> 6350
 <211> 402
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-058-Q1-E1-G6

<400> 6350

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ctttattttt gtgtcatacc tatgtaccgt gggactgaaa aatgttgtat cttcagcaga 120
atggagacat cataaatatt gatgtaaatg tgttccgaag tgtaagttca ctctcctagg 180
attgtggata tgcttatgtg gtatgtttgg catacagtcg gattttgctg acaaattgct 240
tgcaaggctg ataggtttat tgagatgcct catatgcaag ctcataaccc actgttaaag 300
ttgtctgttg tggagatgac tgggttccat ggctaataa acacatttta cctgttatgt 360
acttcatctg agctggatag caaattgcat tttaatgctg at 402

<210> 6351

<211> 464

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-058-Q1-E1-H11

<400> 6351

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cgctgctcg gacacggcgc tgagcgggtg ccggtgcccg ccgggggttc aaggcgacgg 180
ccacaaatgc gaagacctgg acgagtgcaa ggataagctg gcgtgcacct gcccggactg 240
ccactgcaac aacacctggg gcagctacga gtgcggctgc aggggcaacc aggtgtacat 300
ccgcggggag gacgtctgcg tggccaacag catgtccagg ttcggtggc tcgtcgccct 360
cctgcgcgtc tctgcgcg ccggcctagg ggtcgccggc ttcattctct acaagtacag 420
gtcaggtcg tacatggact cggagatcat ggccatcatg tccc 464

<210> 6352

<211> 448

<212> DNA

<213> Triticum aestivum

<223> unsure at all n locations

<223> Clone ID: LIB104-058-Q1-E1-H5

<400> 6352

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 aactcaaac atgggtacg gattaagcga ggattggcta aggacgaggt gacgatgcac 180
 gtgggaaatg gttccaaagt cgatgtgatg gtggtcggca cgctacctct acatctacct 240
 tgggattag ttttagacct aaataattgt tatttgggtgc cagcgttgag catgaacatt 300
 atatctagat cttgtttgat gcaagacagt tattcattta aatcagagaa taatggttgt 360
 tctacttata tgagtaatat attttatggt catgcacct tgaagagtgg tctatttttg 420
 ttgaatctcg atagtagtga tacacatatt 450

<210> 6355
 <211> 442
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-058-Q1-E1-H9
 <400> 6355

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 aattactaga gtcctgttg ctgatggtat gtccaaagat acaatcctaa caaacttctg 120
 agtttcacta gaacacgtat cttgcccttt tggctgttgt acacctacca gcacactcta 180
 gtggctcttg tttacagcaa atgtgatgcg acttagggtc gtgaaagaga tactgccacg 240
 tactaacaga ttacggcaat ccattttccc tcatgctgca tgttgcgcat caaccattgc 300
 atgttgatat cctgatatat taatctcaat gacagaacaa aatgcttggt ggtgccctga 360
 tacatcattc gcctgcaagg tgatgatgca ctcgaaaagc ccctttctag aaaagtataa 420
 cggggctcaa tatgggacat tg 442

<210> 6356
 <211> 300
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-059-Q1-E1-A9
 <400> 6356

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 gacaagaacc tgaccccgat gtgcaacaag atcttccacc tggggacctg catctgagac 120

gtacccttgc atgcaggcga tcgctcatgg gaatgccagc gctggcacat gcaacagcac 180
 cgatatgcac agaattgagt ttgccattct gttctaacca ggatcattgc ccacaaatct 240
 agaatgccat catgaccgga tccttttacg actttttccc gggcctgccc tttgttgagt 300

<210> 6357
 <211> 379
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-059-Q1-E1-C4
 <400> 6357

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 tgttgttggt gttgttggtg ttgttggtgt tggtgttggt gttgttggtg ttgttggtgt 120
 tgttgttggt gttgttggtg ttgttggtgt tggtgttggt gttgttggtg ttactgttgc 180
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 tgttgttggt gttgttggtg ttgttggtgt tggtgttggt gttgttggtg ttgttggtgt 300
 tgttgttggt gttgttggtg ttgttggtgt tggtgttggt gttgttgctg ttgttggtgc 360
 tgttgttggt gttgttggt 379

<210> 6358
 <211> 109
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-059-Q1-E1-D4
 <400> 6358

aagtactaac atgttgcgac atcaagtttg gttgctatat aggttccagt catatatata 60
 cgtgtatgcy acttcattac tctacgagtg tgtcacctag aatcactta 109

<210> 6359
 <211> 491
 <212> DNA
 <213> Triticum aestivum
 <223> unsure at all n locations
 <223> Clone ID: LIB104-059-Q1-E1-H3

<400> 6359

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atcttgccag atcttcaacg agttcaatgc gcgtaagcct gaggaagga atgtcttcaa 120

aggagtaaca aagaatcagc tcttcatggg aatagtttgt gtaactaccg tgtttcagat 180

actaatagtt gaattcctgg gaaagttctt taaaattgtg agacttaact ggagtctatg 240

gttagtttca gttgccattg gcgtcgtaag ctggcctttg gcttatctag ggaaattcat 300

tccagttcct gtaagacctc tccaggccta tttcaagcct tgttggaat catcacgccg 360

agacgaagac gaagcgaggc agggctaaaa aggctgcaga tcanctagtg taaatagaca 420

cgggtcagcc gaagaacagg aaccggttac gcctctccca gtggaacaga gctgccgatt 480

acctctacta c 491

<210> 6360

<211> 405

<212> DNA

<213> *Triticum aestivum*

<223> Clone ID: LIB104-060-Q1-E1-A8

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acatagtagg tgactataga cttgcaagat aggatcaaga actctcatat attcatgaaa 120

acataatagg ttcagatctg aaatcatggc actcggggcc tagtgacaag cattaagcat 180

agcaaagtca tagcaacatc aatctcagaa catagtggat actagggatc aaaccctaac 240

aaaactaact cgattacatg ataaatctca tccaacccat taccatccag caagcctaca 300

atggaattac tcacgcacga cagtgcagcat catgaaattg gtgatggagg atggttgatg 360

atgacgatgg cgacagattc ccctctccga agccccgaac ggact 405

<210> 6361

<211> 409

<212> DNA

<213> *Triticum aestivum*

<223> Clone ID: LIB104-060-Q1-E1-B10

<400> 6361

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 gagatcagtg atccacactg gatgctgttc ttgtgtatgg attttatgga ggtttgggtt 240
 tttttcaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 300
 aaaaaaaaaa aaaaaaaaaa ttaaaaaaaaa aaaaaaaaaa aaaaaaaaaa gacggggcta 360
 cccaatagga tcaaagttaa ctttgccggg aagggaatgt cacaccct 409

<210> 6362
 <211> 286
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-060-Q1-E1-B11
 <400> 6362

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 ttgtgtgtta tgaataacaa acagattaaa caaaccaga atgacagtgg caagattact 120
 ttaaaaaaaaa aaaaaaaaga aaaaaaaaaa aaaaaaaaaa aaaaaaagga aaaagaagaa 180
 acaaaacaaa aaaaaaaaag cggccgctct aaaggatcaa agcttacgta cccgtgcatg 240
 caacgtcaaa gctcatcgat agtgtcacca aaattcaatt cacaga 286

<210> 6363
 <211> 388
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-060-Q1-E1-B6
 <400> 6363

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 aggatcagac ggaggagact aacgatgaca ccacggagat taagccggag aacattaagg 120
 acacgactac tgagaagacc actaccaaga ctaatctgct tatcaatgat gataacaata 180
 ataattattca ctacgatgaa catgcacatc gaggaggata tttatgactg acgacatgac 240
 gatggaggat attccgatga tctccctctc cctcctctc tcccctttcg cggccgctct 300

atacgtcca cccttactta cccgtccate cgacttcata cctcttctat attgtcccc 360
tccttcactt cactggccgt cctttttc 388

<210> 6364
<211> 410
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-060-Q1-E1-B7

<400> 6364

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cgggtgggaga acgaatactc ctgtggctct ggctggctct gcacctcat gaacggcaca 180
ccatactcga tcgattcggt atcctctggg tgcttgacct tcgacctgta cgtccccac 240
ctccgcctga ctatcgctc ggggtgaatct gtctgctcca tcgcccatag gagatactcg 300
atgaactcgg aggactgcaa cgtgactgcc gccgaggagt acatgtacat caccgcctct 360
catcgccgcc atctcgtctt ttgcataca ttgccacatg gccgcaccg 410

<210> 6365
<211> 408
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-060-Q1-E1-C10

<400> 6365

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ttttgtgttt tgtctaattg cagggtgatg agacatttgt acaattcaca tatgaagata 120
aggaagaaag atatgtttat ttgctgtcca aaaagttctc tcattgtcact ttgggcccaa 180
gagaagatag agtccaagtc tctcacgttc tggattcaga ttccggactgc acagacacac 240
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ttggaaacta gatttcgtgc actttccaac ccaattggaa tcaccttcaa attcgtccgg 360
agcgttgagt tgtggacgaa acaatctgat gctgcagcaa aatccgag 408

<210> 6366

<211> 423
 <212> DNA
 <213> *Triticum aestivum*

 <223> Clone ID: LIB104-060-Q1-E1-C12

 <400> 6366

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 attgataaac cttagggtcat ccacttgacg gaaatttgct attgtcctac agacctctgc 120
 atttgggggc ccatcaacgt ctacaagatt aacgttgtgt actacacatc aagcaatttc 180
 tggcaccatt gccggggaag ttagtgcttg aaggtatatc ttacatcgt gcactcgaat 240
 ctttgagttt cttgttttat caccagttaa gtcaataatt caactataaa atacggcact 300
 aagggtgcct cttatgcttc atcttttact atcgttcacg aagatcatga ttccaataat 360
 tgtgccaaag tgttatcaga agactgcatt aacatgtttg gaactaaac tttgaatgat 420
 gag 423

<210> 6367
 <211> 117
 <212> DNA
 <213> *Triticum aestivum*

 <223> Clone ID: LIB104-060-Q1-E1-C2

 <400> 6367

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 tctaggaatc catgccacct gatagctctt cgatacctcc cgtatgtcaa ttcaata 117

<210> 6368
 <211> 429
 <212> DNA
 <213> *Triticum aestivum*

 <223> Clone ID: LIB104-060-Q1-E1-C6

 <400> 6368

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 atgtattccg aatatagtca tacgtgctta tgaaaaagaa cttgcatgac atgttttgc 180

ctaccctccc gtggcagcgg ggtcctattg gaaactaagg gatattaagg cctcctttta 240
 atagagtacc ggaccaaagc attaacactt agtgaatata tgaactcctc aaactacggt 300
 catcaccgag agtgggtcccg attattgtca attcgggggtt gtcggatcat aacacataat 360
 aggtaactat agacttgcaa gataggatca agaactcaca tatattcatg aaaacataat 420
 aagtttaga 429

<210> 6369
 <211> 399
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-060-Q1-E1-D1
 <400> 6369

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 gaggaagttc gataaggatg acctcatccc gcccaagccg ggatcgtacg tcaccaggct 240
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 cccgccggcc ggccggagcc gatcccttcc gaatcttcaa ttctatagct ttgttcaatt 360
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<210> 6370
 <211> 407
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-060-Q1-E1-D10
 <400> 6370

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 tgtccatgag ggtcgcattc accagctgaa gctgttctgt gacaaggact accctgagaa 180
 ggacccatct gttacattcc attcaaaaat caacatgggt tgtgttactc acgagactgg 240
 ggcggttgac tcaattaagt tcagtttgct aacaaactgg caacogtatt acactatgga 300

acatgtcttg acccagctga tgaacgatat tgcagcgacg cagaaccgca agctagtgc 360
gcctccagaa gggacattct tctagcgggg tgtttgccgg cccatct 407

<210> 6371
<211> 425
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-060-Q1-E1-D12

<400> 6371

aggttacggg acggaattcc cgcgtcgacg ggtttgact ccttttgata tccttttcct 60
tcgaaacact gaaataggca aaaaaacagc aatttgggct gggcctccgg ttaatagggt 120
agtcccaaaa ataataaaa agtgatataat aaagcccatt aaacatccaa aacagaatat 180
ataatagcat ggaacaatca aaaattatag atacgttga gacgtatcaa tggtcaccat 240
cctctcctat ttctgtgggc aactgagtc tgatcttga gggttattta tggtggattg 300
aatatatttg atttgagatc acttgatgca tgtctaattt gtggatatcc gtggtgacat 360
tgaggtaatc taggtgacaa aagaattgaa cgatatgtat tatatggtat tgctgtagta 420
cgatt 425

<210> 6372
<211> 329
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-060-Q1-E1-D6

<400> 6372

tcgacgggag actaagggtca gatcccatct gcatcgtcca gtcttggaca gtcgtcgacg 60
ctaattccaga cagggacaat gaactcaggt ggccatattg tgctatgctt cacgatatat 120
ctggccgtca tgaggaaatt cttttgcac cacttttttt tgactttctc agcaatgccg 180
ttgtgcacac tctgggtgat attacagtgt gacctgtgtg ttaagaaggg atgtttgtcg 240
catctatagc ttccggaacc agctgctgta cattctttca tatgtcgttg accaatctgc 300
tcaccgcagt ttgccattta caaatcata 329

<210> 6373

<211> 400
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: LIB104-060-Q1-E1-E11

 <400> 6373

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 agcaagggtta gtcattcttc catgaggaaa ttgtaagact tactatataa gttgttcctg 120
 atgaatcctt tgagtagcca aagtccgacc ttgctcgaaa accatgtcaa tgctacctcg 180
 aagcatgttt gtggactacc gatgatcaat agttacattt gaagcataac gcaaaatgtt 240
 ctttactaat taccctaaac accgtttgta tgggtaatga catgatattt ctctcacctt 300
 tcctaaaggg ttttctacgt tataccttgt cgtagagata atgttctgct tgccttggg 360
 aaggatatac ccctgaaata tgtgtttaaa cacattttcc 400

<210> 6374
 <211> 398
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: LIB104-060-Q1-E1-F8

 <400> 6374

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 gttacttccc aactcaggct ttgaactttg ctttcaagga ttacttcaag aggatgttca 120
 actttaagaa ggacaaggat ggttactgga agtgggttcg tggcaacctt gcttctggtg 180
 gtgccgctgg tgcttctcg ctgttctttg tgtactccct tgactatgct aggacaaggc 240
 tggccaatga cgcaaaggca tccaagggtg gaggtgaaag gcaattcaat ggcttggtg 300
 atgtctaccg caagactctc aagtcagatg gtattgctgg gctttaccgt ggattcaaca 360
 tctcctgtgt tggaatcatt gtctaccgtg gtctgtac 398

<210> 6375
 <211> 427
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: LIB104-060-Q1-E1-G11

<400> 6375

aggtagcgga atggaattcc ggggtcgacg ggaggtcatt gcttgtgcct aaccaactgt 60

tattttctct acagagtgtg tgtataatct cacaacgga ctgtacaaac agcttctcag 120

cacgaaccac accagtaagc acacaagtc aactgatcat atttatataa aaacactata 180

atcggtgaa aatgacacca tgcattgcag aatcctgggt tttattttat cacttattaa 240

aaacatgtag tactcctagt aacctatgat ttggaccagt ctatggatct caggaggaat 300

ttaattgggt aacaacagaa cataggacca aagaccacca gaaaataatg caaagcgaca 360

ttaacgacag agacagtagt gcatgccta atagtatttt tttttgcatg caaatcagct 420

gggcccc 427

<210> 6376

<211> 393

<212> DNA

<213> Triticum aestivum

<223> unsure at all n locations

<223> Clone ID: LIB104-061-Q1-E1-A12

<400> 6376

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gggcatattt tcatcaggga gtcctgcttc caccagtctg gggattccaa gaggaaagtg 120

aacccgacgc actaccgga gccaaaggtt tacaccaagg tgtttaagga atgccactcc 180

tatgaccaag atgggaattc ctttgagctt tctctggtta cttccaagtg cattggagct 240

tatgtgaaga gcanaaaaac cagaaccaga tatgttggct atgggagaag gtcaagtgca 300

cagaagacaa aggctttcag agattcctgg acaatgtgca gtacaaatcc actggaatcc 360

tgcgttatga gcgcgtgttt gggaaggtt atg 393

<210> 6377

<211> 221

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-061-Q1-E1-E5

<400> 6377

gacgggatat aactgataat atcgatatag gttattctac aagattactc tataaaaaaa 60

aaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaag aaaaaaaaa 120
 aaaaaaaaaa aaaaaaaaaa ggggcccgc aaaggatcc aagcttactt acccgtgcat 180
 gcaacgtcaa agctcttcaa aattgtcacc aaaattcaat t 221

<210> 6378
 <211> 436
 <212> DNA
 <213> Triticum aestivum
 <223> unsure at all n locations
 <223> Clone ID: LIB104-061-Q1-E1-F1
 <400> 6378

tcccggtctg acgggagatt acccgacccc gctgcgttcg tcaaaccaaa ggccccctgac 60
 ggacgcctg agatcaggcc tcttgacatg ccaaagcgcc ctgctcgcaa ccgcaggctg 120
 ccagctctta gggctgcatt ccaggagaca accatctcgc ccgctaattt ggtgctccca 180
 ttgttcatcc atgaagggga agaggatgct ccaattggcg ctatgcccggt gtgctttagg 240
 cttggatggc aacatgggct tcttgatgag gtgtataagg cacgtgatgt tgggtgtaac 300
 agctttgtgc tctttccaaa agttccggat gcattgaagt ctccaacagg agttgaagca 360
 tacaatgaca atggtttggt tccacngaca attcgctcgc tcaaagataa gttccctgat 420
 atcattgtct acacgg 436

<210> 6379
 <211> 391
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-061-Q1-E1-H1
 <400> 6379

cccggtcga cggggatcta cggtgatagg atcacgacga gaacgactac ttcaaccctg 60
 ttcttttgaa cgcttccgct cgcatctac aaagtggat gtagatgcat ctcccatgac 120
 tcgttgctta gatgaactca tagatggatc ttggtgaaac cgtagaattt tttttaattt 180
 tctgcaacat tccccaacag cttaaccccc acatggtcaa cacggatcat gacgcatgtg 240
 ttgtgtgacc atgatagcta tttccctagc aagctatata tatatatatt ctccactagt 300

tccattcagt atgtggacat gaattgaatc aatgatgcac cctcctgacc actgaagcta 360
agaataggag cagaagttag agcgagaaag a 391

<210> 6380
<211> 443
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-061-Q1-E1-H2

<400> 6380

gaattccggg gtcgatgata cagaaggaag aactgcagct agcattattc ataactccta 60
gcgggcaaaa tctttttatt gacagggttt ttgatttggt tgatgaaaag aagaatggag 120
taatagagtt tgatgagttt attcatgctc tcagtgtctt ccatccatgt tcacctgtgg 180
aggataagat taattttgca tttaagctgt atgatttgag gcaaaccgga tttattgagc 240
gtgaagaggt tatgcaaag gttattgcca ttttgaatga atctgatatg aaattgtctg 300
acgagcttct tgaggccatc atagataagg gacatcacia catcttttcc tagttttgtc 360
ttcaacacgg cagttgaaga ctaaatagtg caagaattct aaaatgacgg caacaagttg 420
gaagcatatt atgtctgtca gct 443

<210> 6381
<211> 439
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-061-Q1-E1-H7

<400> 6381

gaattccggg gtcgacgggg aatgcgggta cattgctgct aatctttatg ccaagagtgt 60
gttcggagaa gatgcttttg tgaacatcag cattgagaag caagtcgatg gcaagcttag 120
tggttacatc agaataagga gtaagacaca aggaatcgcg ctgagcttgg gagataagat 180
taccctcaag cagaagggag gcagtttaatt ctgatgttgc ctgctcacia acaccggatt 240
gtatgacatg tttccttcaa gagatccact tgccagtgtc atactacagg cacaatggga 300
ttgattgaat taactacagg aagtttttgt gtacagaata tcaaagagaa gaatgataaa 360
agaagaggat cgtaggggaag tcagtcttgg gagctgaaaa acgatcttga cacttccttt 420

cgcgataggt gtttattga

439

<210> 6382

<211> 138

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-062-Q1-E1-A12

<400> 6382

tagtgagtcg tattagatgc tccaggcatc tgtgggcggg ttcgtctctt ccagctgcgt 60

ctcttgcggt gattgacttg cattcctgag tctgtgtgct ctgtggtcgg gctagggaga 120

tacccggcgt tcccgtc 138

<210> 6383

<211> 409

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-062-Q1-E1-A7

<400> 6383

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tcctcatgtc tgcataata cctccccatt tttactcaag cagaagcatc ggcttctact 120

agttggaaca gtctaccgca catttaaata tgtgggcaat gaagaaaaag gggaaatatt 180

tctgagagac agtagatgat catcaaaaga atgtgaaatg tataagagaa ttagaggcac 240

cggaagaac tgcacgttg ctatgtagac catgcatcaa gctcaatttt atcattcaca 300

atggactccc ttacctgcc actagtgtca ttctttttt tcggaaaaac ttccaatcta 360

ttcatcttca atcatggcag tacaacgaat gccagaaata aaaattaca 409

<210> 6384

<211> 428

<212> DNA

<213> Triticum aestivum

<223> unsure at all n locations

<223> Clone ID: LIB104-062-Q1-E1-B10

<400> 6384

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ttgagatgaa ccaattgaca gattgcgatc agattgagtt atcacccttc tactgtcatt 120
 gttgggtggg gggaagggg agggagagaa aggcgtatcg agagtgtgcg cagtaggcat 180
 agaggcacaa ctagcgactg tgtgtgtatg tgtgtgtgtg tttgaaagag gagtagatag 240
 attactatca agatcgaggt gccaccctac tccttcggtg tcaggtaatg tgtgtgtgtt 300
 tgagagagaa gccatgtcga tagattagta tcaagatcga ggtgtcgccc tactccttcg 360
 gtgttgggaa gtgtgtgtgt gtggttgtgt gtgtcgggg gaagggggca gtgacactta 420
 catatctc 428

<210> 6385
 <211> 291
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-062-Q1-E1-B11
 <400> 6385

gaattcccg gtcgacggg aatgaatgat aatatcgata taggttattc tacaagatta 60
 ctctatagat ccatcagctc taagtaaact gcgtataaat catgtatgta taaggatatgt 120
 gttactgatg ttagaagttg attcaaaaaa aaaaaaaaaa aaaaaaaaaa aaaagaaaaa 180
 acaaaagaat ataaaaaaaa aataaacgtg taaacaaaag aatatatctt tacaatcgtg 240
 tctaaaagtc acatcacagt gcgtctcttt aaaaaacatt gagtgtgaaa a 291

<210> 6386
 <211> 343
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-062-Q1-E1-B3
 <400> 6386

tgcttcaatt tcagtttggg tcagagtcag gtcctggatg ttgtcaagtt tgtttactta 60
 tgggcacttg tgtattgggt tattgctggg cattatgcct tgatattaaa gatttccgcc 120
 cagtacaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 180
 aaaaaaaaaa aaaaaaaggc aaaaaacaa aacaaaaaaa aaaaaaaaaa gcggcgggccc 240
 aaaaggatcc aagcttactt acccttgcgt gcaacttaaa agctcttcaa aagtgtcccc 300

aaaatcaaat tcaagggccg tcttttaaaa acttcttaac tgg

343

<210> 6387

<211> 466

<212> DNA

<213> Triticum aestivum

<223> unsure at all n locations

<223> Clone ID: LIB104-062-Q1-E1-B4

<400> 6387

ggtctagaaa tncgggtcg accggatata gtaggtttta cgccaatata aataaagaat 60

gagttcatta cagtacctta tgtgggtggtt ttgctttctt tcactaatgg agcttatgag 120

atttcctggt gagttttctg ttgtgaagtt ttcaagtttt gggtaaagat ttgatgcact 180

atggaataag gagtggcaag agcctaagct tggggattcc catggcaccc gaagatattc 240

aagagtacac aaaagcctaa gcttggagat gcccccgga ggcattccct ctttcgtctt 300

cgttcatttg taactttact tggagctata tttttattcg ccacatgata tgtgttttgc 360

ttggagcgtc gtgtatgata ttagtatttg atgtttagtt ttccacaatc gtactttctg 420

tacacacctt ttgggagaag acacttgatt gaaatttatt agaata 466

<210> 6388

<211> 371

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-062-Q1-E1-B6

<400> 6388

caggtaccag tctagaattc ccgggccgac gggatggctt aaaaggaagc gctgccaggg 60

aaacaacccg gaagtttttag agagtcattt atttctgttg tctgctttta tatagtttaa 120

aaacaaaaaa ataaggaggg gaacccaaaa ctttttcaaa aagaaaagtg aaagtgagat 180

agacgagcat tgtgaaagtg ggggacgtcc ttgaactttg ttcattgcca tggaaacttt 240

gtgaatctta attacagaaa cttttcaaaa aaaataatta tccccttgta caattccatt 300

gtattataaa aataatgtgc caagggttgc ctttaggatg ttacaatgc ttgttggtt 360

gtgccggtgt a 371

<210> 6389
 <211> 427
 <212> DNA
 <213> Triticum aestivum

 <223> unsure at all n locations
 <223> Clone ID: LIB104-062-Q1-E1-B7

 <400> 6389

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 tgccggatga tgccgcgga aaggctctgag ccaagcaagc agtgatcggc gatgggacag 120
 aaaagattgt gtcaggacat actactgggt ccagactgtg ttggaatgca acgcatgcac 180
 cgtgaactgg cggcaggcca ggacgataag atgggcagtg cgccattgct gtacccactt 240
 tctgcctgat ggtttccttt caagtagcta gtaccagacg tctcccggtg atgttgtatg 300
 taccgaatta ataaaacaag tttcagatgc ttttagtgag ctctatgtg ggtggcttca 360
 gcacgcacca naggacaatt ttacatttaa ataaaaaaaa gcggccgctc tacaggatcc 420
 aagctta 427

<210> 6390
 <211> 340
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: LIB104-062-Q1-E1-B8

 <400> 6390

gtaccagtca ggaattccgg tcgacgggag aggccaggag atgatcagga agcgtcaagg 60
 acgaccaacg ttcgcaaggc cgacgtaacg gacgaacccg tgcaaacgac ctgaaccgga 120
 atgcccgatc gatttcgccc aggacgacga cctcgccgctc gacgacttca aggaggcgga 180
 cgatcaacac gatccacgct tacctacgca tccacagcga catgatacct ctgcaaagtt 240
 gccaccgtgg atcaactcat cggccgctgt cttcacgtgt cggcacagag aatcccccggt 300
 cgtgtgcca cttactcccc tatcatcaca tctctctggc 340

<210> 6391
 <211> 409
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-062-Q1-E1-B9

<400> 6391

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ccctaggagg ggcacctcca gggcttattg gccccctgga gcacctccaa ccctaattctc 120
tgatctattg atttggtttg gccacctaga ttgatttttc ttagaatgag agagggtgcct 180
tgtttttaggt tcaatcttgc ggtgtcctca cccaatgaca gaagggtagc gaggcattgca 240
tttgtattgt tgccattaag gataaaaaga tgggtttttt gcaatattga ttggatctat 300
ctccctacat catgtcatct tggttaaggc gttactccgt tcttggttaac ttaatacact 360
agatgcatgc tggatagcgg tcgatgtgtg gagtaatagt agtagatgc 409

<210> 6392

<211> 463

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-062-Q1-E1-C10

<400> 6392

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tcttttagag catggtggtg gatttgtttt atagaaacta ttgatctctc atgcttcact 120
tatattattt tgagagtctt aaatagcatg gtaattttct tagaatccta atatgcttgg 180
tatgcaagat taataataaa aatcctctta tgagtgtggt caatactatg ataagtttga 240
tacttgataa ttgttttgag acatggagat ggtgatatta aagtcattgc agttgagtag 300
ttgtaatttg agaaataact gtgttgagc ttgtgattcc cgtagcatgc acgtatggtg 360
aaccgttatg tgatgaagtc ggagcatgat ttattttattg attgtcttcc ttatgaatgg 420
cggtcgggga cgagcgatgg tcttttccta caaatctatc ccc 463

<210> 6393

<211> 417

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-062-Q1-E1-D12

<400> 6393

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 gttttgaaaa gagttcattg attttgaaaa acagttcatc gattttgaaa agagtttttc 120
 aattttgaaa agagttcatc gattccgaaa agagttcatc gattttgaga aacaaagttc 180
 atcaattttg aaaaagagtt catcgatttg aaaaatagtt cattgatttt gaaaaaagtt 240
 cgtcgatttt taaaaaagtt catcgatttt gaaaaaaagt tcgtcgattt ggagaaaaaa 300
 atattttctt tgtaaaagag ttcatcaatt ttgaaaaaat agttcacgaa ttttaaaagg 360
 ttcattggat tttgataaaa aaaaattcag caaattgaaa gagttcacgt atttaac 417

<210> 6394
 <211> 450
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-062-Q1-E1-D6
 <400> 6394

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 taatgagtta gttgcaagat gatgtattac ggaatgagta aagagacttg tcagtaatga 120
 gattgaacta ggtatgaaga tactgtgaca ccctcgattc aatcatacac taaccataca 180
 cgcaaagtgt tacgatcaag atcaaggact cacgggaaga tatcacaaca caactctaga 240
 cacaaaataa aataatacaa gctttatatt acaatccagg ggcctcgagg gctcgaatac 300
 ataagctcga atacacaaga gtcagcggaa gcaacaatat ctgagtacag acatgagtta 360
 gacaagtttg ccttaagaag gctagcacia aagcaacaac gatcgaaaag gcaaggcctc 420
 ctgcctggga gcctcctaac tactcctggt 450

<210> 6395
 <211> 435
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-062-Q1-E1-D7
 <400> 6395

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 gatctccac tgctgaagac accgcaaggc tattggcgat gaacaaagcg cgcgactttt 120

ctggcatgct tggctcaata gattgcatgc attggagttg gaagaattgt ccaaaggcat 180
ggcatgggca attccacggc caaaaagagg gttccactat aatccttgaa gcggtggccg 240
attaggagac ttggatttgg catgcattct ttggaatgcc tggatctttg actgacatta 300
atgttgtcaa ccggtcacca ctgatgaata agattgcaaa cggtgagttt ccaccgggtgc 360
agttttagc aaatggtcgt acgtacaact atggctatta tctagcggat ggcatctatc 420
caaaatggca aacct 435

<210> 6396
<211> 447
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-062-Q1-E1-D8

<400> 6396

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atagaataca tttttgtagg ctaaactagc attcaacaac gttttacttt ttgctacgga 120
ggtaatatcc gattatcagc tcaactcgtca gcgcgcaacg attttgatca tccccctct 180
tgcaacttgc taccgcatag tatatataga gatactgtac aagacaatat cacaaccgcc 240
tttcatgggtg tgagtaaacy ctttctcttc tcttttatca aaacattgga cattcactca 300
tgtccatttg tgtccccctc tccccctctt tgtttttctg tttttttggt ggagagagtt 360
tccgcctat tgtgtttaga gcaacgttct tacatctgca acctccaaag cgtttttgtt 420
ttggaggatg ctctattctc tttgttt 447

<210> 6397
<211> 337
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-062-Q1-E1-E12

<400> 6397

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ttgtgggcaa tttggaactg cagaaatgat ttggctttta acacaacagc aactattcat 120
tttttgcagg ttttattccg agctactgcg ctgatccgta tgtggtcggt actcactccg 180

gcgaggcca gggagcggtt gggtaccgga tctgtccggt gggagatggt agctcgggat 240
atcttcaact gggttgatgg cggatcatgta ataggatatg tgattaattt acctatcttt 300
cttttgccag ccggtggtgg cttatgggccc tttagtt 337

<210> 6398
<211> 455
<212> DNA
<213> Triticum aestivum
<223> Clone ID: LIB104-062-Q1-E1-F11
<400> 6398

aggtacaggt caggaatgcc cgggccgacg gggaggttga gaagctgatt ggcaggatag 60
tgaagtggct gaagcccggt gggcatatct tcatcagga atcgtgcttc caccagtctg 120
gggattccaa gaggaagtg aaccgacgc gctaccggga gccgaggttc tacaccaagg 180
tgtttaagga atgccactcc tatgaccaag aggggaattc ctttgagctt tctctggtaa 240
cttccaagtg cattggagct tatgtgaaaa gcaagaagaa ccagaaccag atatgttggc 300
tgtgggagaa ggtcaagtgc acagaagaca aaggctttca gagattcctg gacaatgtgc 360
agtacaaatc cactggaatc ttgcgttatg agcgcgtggt tggggagggt tatgttagca 420
ccggtggatt cgagaccaca aaggaatttg tggac 455

<210> 6399
<211> 458
<212> DNA
<213> Triticum aestivum
<223> Clone ID: LIB104-062-Q1-E1-F6
<400> 6399

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tttgattcct tgcaatagtt ttgcgatata aaggtggtta tattagagtc atgctagtgg 240
gtggttggtg attgtagaga cacttggtgt gaggtttgca agttccgtag catgcacgta 300
tggtaacctg tgtgtgacaa atttgaagca tggggtgttt ctttgattgt cttccttatg 360

agtggcggtc ggggacaagc gatggtcttt tcctaccaat ctatccccct aggggcatgc 420
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<210> 6400
<211> 385
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-062-Q1-E1-F7

<400> 6400

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gagttttctc aagagattgt tgtctctcca attgatgcag gtcttgggtg aatattctga 180
ggctcaaatg gtgatccgag aggacgggca gcaacagaat tccttgttta gagagacaca 240
ctcagagctg tttagccagc tcaatgatgc tctcttgagg tttgaagagg gtcctccgtt 300
tacacttcaa aggctttgtg agattttggt ggattcaaaa ggaacataca caaaattgtc 360
gaagcttgct ttggccttgg agaag 385

<210> 6401
<211> 395
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-062-Q1-E1-F8

<400> 6401

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tccccttcca ttggcttcac caacaagatc tatcacccca atgtcgatga gatgtccggt 180
tctgtctgct tggatgtgat caaccagacc tggagcccaa tgttcgacct tgtggatatc 240
tttgaggtgt tcctgcccc a gtttctctg taccggaacc cctcggaccc cttgaacggc 300
gaggcggcat cgctgatgat gcgcgacaag aatgcctatg aaaataaagt caaagaatat 360
tgtgagagat atgccaagcc tgaagacata tcccc 395

<210> 6402
 <211> 456
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-062-Q1-E1-G9

<400> 6402

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atgatgctga agaagacatt ggggatgaag agtctggtgc cttcacttct tgtggttgaa  180
cacggtggtt tagagctcct gaactcctat atgggtcaac cagctacggc caagagatcg  240
acctgtggtc actaggatgc attttggctg agcttcttag tttagagccc atattcccag  300
gccaatctga tattgaccag attggtagaa tcatcggagt cctgggcaat atcacagaag  360
agtcctttcc tggtgttca aatttaccg attacaacaa gatctttttc agcaagggtg  420
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<210> 6403
 <211> 405
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-062-Q1-E1-H11

<400> 6403

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ttttcatgtg ttgtttgctt attctgatgc atttatggct agtatgtagg gtatgaacca  180
tagagaagtt ggaatacagt aggtttaaca ccaatataaa taaataatga gttcattaca  240
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gttttgtgtt gtaaagtttt caagttttgg gtaaagattt gatggactat ggaataagga  360
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 <211> 447
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-062-Q1-E1-H7

<400> 6404

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caaatcgggtg ggggtgttga cgctcttcgt gtcactgatg acctgttgat gaggagggca 180
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cagccgggtgt gatttgctct tacattgata tcgcatgcgt atgaataatg gtccaatgga 300
attgggagcg gagtaagaag ctcatgttgc ctttatgcat gtaataatca tgctgcctg 360
catggcccg c tagctgttgg tccaatgcct ggctgcctgc ctgaactggc gtcaatttcc 420
agtttgtttt tgtaatatat aataact 447

<210> 6405

<211> 365

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-062-Q1-E1-H9

<400> 6405

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aagatcaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 180
aaaaaaaaaa aaaaaaaaaa aaaacaaaaa aaaaaaaaaa aaaaacaaaa aaaaaagtaa 240
aaaaaaatca aataaaaaaga aagaagaaaa aaaaatataa gattgaaaaa aaaaaaaaaa 300
caacgaaaaa aaaaacaaaa tgcaacaaaa aaaaaattta gaaatcaaaa agtaatatta 360
agaaa 365

<210> 6406

<211> 387

<212> DNA

<213> Triticum aestivum

<223> unsure at all n locations

<223> Clone ID: LIB104-063-Q1-E1-A1

<400> 6406

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accactagc atgaatatga gttgtttgac cctgatgtg cctacgcaat catgcgtgta 180
tgtcatggct gctactgctt agagttgagt cagggtctgat tcatcgagga tgaattggga 240
aagtggtaaa catgtcctac tgggattgag ctactgtgt aaacactagt tggtagatgt 300
atccatgaga cgccatgtac gactacatgg agggttgttt cattagcatc atccttaagc 360
actaagatct gtatgtatgc tttaaga 387

<210> 6407

<211> 461

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-063-Q1-E1-A10

<400> 6407

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cttcggctgg ctacgaagc ccggtggggg gatgatgatc atggacccat acggcgccac 180
catcagcgcc acccccgaag cggcgacgcc gttccctcac cgccagggcg ttctcttcaa 240
catccagtac gtcaactact ggttcgccga ggcagccgcc gccgcgccgc tgcagtggag 300
caaggacatg tacaatttca tggagccgta cgtgagcaag aaccacaggc aggcgtacgc 360
caaccacagg gacattgacc tcggcaggaa cgaggtggtg aacgacatct caacctatag 420
cagcggcaag gtttggggcg agaagtactt caagggcaac t 461

<210> 6408

<211> 461

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-063-Q1-E1-A6

<400> 6408

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 tatttttagga agcagcagct tgacaacaaa acaacatcac ctaactctaa ctgaagagga 240
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 attgggagcg gagtaagaag ctcatgttgc ctttatgcat gtaataatca tgccctgctg 360
 catggcccgct tagctgttgg tccaatgcct ggctgcctgc ctgaactggc gtcaatttcc 420
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<210> 6409

<211> 460

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-063-Q1-E1-B10

<400> 6409

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 ggattccaag aggaaagtga acccgacgca ctaccgggag ccgaggttct gcaccaaggt 180
 gtttaaggaa tgccactcct atgaccaata ggggaattcc tttgagcttt ctctggtaac 240
 ttccaagtgc attggagctt atgtgaaaag caagaagaac cagaaccaga tatgttggct 300
 gtgggagaag gtcaagtgca cagaagacaa atgctttcag atgttcctgg acaatgtgca 360
 gtacaaatcc actggaatct tgcgttatga gcgcgtgttt ggggaggggt atgttagcac 420
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<210> 6410

<211> 437

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-063-Q1-E1-B11

<400> 6410

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cctacacggc agagaaacag aggatcttga ggggcctcat caagggcagc ttctttgcgc 180
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 ttctccagta cagcatagca ggattgttca tgttcatgag ggtgatgtgc aggactggtg 300
 atgtggtgca cttctgcact gtgaagcgcc agtgcgcgag tgtgttcaac aggtgtaaaa 360
 tatgggacta tcatcggatt tctggatgta atttaatttt acataaataa acctgggtttg 420
 ctacttaaaa aagaaaa 437

<210> 6411
 <211> 379
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-063-Q1-E1-B12

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 ctgcttgctt atacgactac aaccaggatt tctcgaacct catgcatgag atgctgtcga 180
 tgatatatac cgtgacgaac gattcgtcgg acacgcttca ggacctggaa acaatgctgc 240
 atgagataat caaaggcaag gggcgtagct gatccactgc ttctgctagt tctaccgcaa 300
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 accgtatccg gaaccgtca 379

<210> 6412
 <211> 447
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-063-Q1-E1-B2

<400> 6412
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 aaccttgatt tcatatcttc caatgccact aggacgggca ccatctacta tgtttatggg 180
 gaaatcacgg cacaccatca actctataac ggtcagagtg ttttgctctt ttctcgcgga 240

gaagagaaca aagcagaggt cattgatggt gaacttcac tggtacggaa gtgtgcagtt 300
 gttectatatt acttgagacc gtcctgata ctcaagttcg acctgcatgt tccaattaat 360
 tgtgatcacg atgatggtgg ttgtaccatc gccttcgag actatgttac attttaccgt 420
 tgacagtatg aagaataaat aatctgc 447

<210> 6413
 <211> 404
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-063-Q1-E1-B3
 <400> 6413

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 ctcccaaagg tttgataata acaggtaata ggtactacct catctacttt ccaaaccac 180
 aatttaatta gatcctaate atgcaatgtg tgaggattga tgtaatgcaa taaaactggg 240
 tagtaagacg tatgatcaaa gtgttacttg ccttgctgac gatccgtgaa acctaacgat 300
 tcgaggtagc aagcggcgca ctccgggtac tctatcgcaa acaaacaagc acacaataag 360
 tactcaacta atgcacaggt aaaactcaaa taagagatct aact 404

<210> 6414
 <211> 474
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-063-Q1-E1-B6
 <400> 6414

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 tgataataac atctggacag acttacgaaa gagaatatat tgagaaatgg ttcagtggag 180
 gatacaacac ttgtcccaag acacaaaaaa agctagaaaa ctttgcgatg attccaaata 240
 cttgcatgag ggatctcatt tgcaactggg gcagagagca tggtttcaca atctcagatt 300
 ttcttccaag caaagattcc tacagttatt tgccagagca attgcatggt cactctatgt 360

caagtttgca caatgtttca gtacctctaa ttgctgggaa tgccaggaat ttgtgattg 420
atcacagcag ttcatctgtc gcgttttctg atgccagtta tgtctcagat tcct 474

<210> 6415
<211> 320
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-063-Q1-E1-B8

<400> 6415

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gatctatgga gtgctccaca gcaggtcgca attttaggat ctcttcatga ggagaggtac 180
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ccacatgaca atcaaaccaa 320

<210> 6416
<211> 443
<212> DNA
<213> Triticum aestivum

<223> unsure at all n locations
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<400> 6416

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atgccccagg aaggcatccc ctcttttgtc ttggttcaat ggtaacttta catgcagcta 240
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tgctttttat tttaccacaa tcctccttgc tgtacacaac ttttgggaga agcctaattg 360
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tgctcganta cttcacttat atc 443

<210> 6417
 <211> 427
 <212> DNA
 <213> Triticum aestivum

<223> unsure at all n locations
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<400> 6417

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 tagcatcttc ttccaaatta attttatggt gacataaagt gggactaatg cccttaagat 180
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 aagcatatct aagagtatca ggcaacggtt taagctcaaa cacgggatca cccttgggtg 360
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 agaatac 427

<210> 6418
 <211> 420
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-063-Q1-E1-C10

<400> 6418

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 ctgttcttgt agatttatac atattgttgt atagaaagaa agcaagactc ggaaacgtga 180
 actaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 240
 aaaaaaaaaa aaaaaaaaga ataaaagaag aagaaaacaa taaagaaaca tcaaaagcac 300
 ttcgaataat gtcaacgaaa ttcgaattaa ttgaccgtca tttaaaagat tagctaattg 360
 gaaaacgctg ccgttacgcg aaacaacgag cggtgcaaca aagcctcctt ttacaagaag 420

<210> 6419
 <211> 447
 <212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-063-Q1-E1-C11

<400> 6419

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agaatcagga aagagatgag agagcgagcg tgtcacgatg atccccgcta gctgatgacg 420
aaatttgccg gttgctcttg tttcttg 447

<210> 6420

<211> 323

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-063-Q1-E1-C12

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gattttatat gtgtgtcccc agtgaatttg cgtcaatagg ggaatatctt gctgtctgca 180
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gctggctgag ccattcaagg tccgacttcg ggagtcggac atggcaataa tgttcctcat 300
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<210> 6421

<211> 446

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-063-Q1-E1-C3

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 actaatggcg caccagacat gtgggtgcacc attactatat actaatggcg caccatgtgt 180
 tgggtgtcca ttagtgtgca aataactaat ggcgaccacg tccacggtgc gccattagta 240
 atttttttta attttttcaa aattactaat ggcgaccgt ggacgtggtg cgccattagt 300
 atttgcacac taatggagca ccaacacatg gtgcgccatt agtatatagt aatggtgcac 360
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<210> 6422
 <211> 466
 <212> DNA
 <213> Triticum aestivum

 <223> unsure at all n locations
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 <400> 6422

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 ccttgcaaag aaggctactg agggggcgct gtcaattgac gagatggcgg gaggaacatt 180
 caccatctcc aacggtggtg tctacggaag ccttattagc acgcccata tcaaccccc 240
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<210> 6423
 <211> 446
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: LIB104-063-Q1-E1-C6

 <400> 6423

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accttttgta tattaagatc tgataaattt actacagtgg gaattttatt tcataatttt 180
tggagctagg gaagtatgga tgttgacagta ttctttacag actatcctgt ttaggcagat 240
tgctgttatg tttgcattgt ttgcatatgt ttgcttcttt aatgattcga ttgaggata 300
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tggttgagtt ttgtgtggat gaagct 446

<210> 6424
<211> 89
<212> DNA
<213> Triticum aestivum
<223> Clone ID: LIB104-063-Q1-E1-C7

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ggaggtccgg atccccaggt tcaacaaag 89

<210> 6425
<211> 419
<212> DNA
<213> Triticum aestivum
<223> Clone ID: LIB104-063-Q1-E1-D12

<400> 6425
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cggcgggagc cgctgagggc ggcgaggatg ccgggggtgga cgtgaaggcg gacgagttca 180
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attcatcgat gtcaattgca agttagatac acataatgca taaaccgtag ttgtcacatg 360
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<210> 6426
 <211> 337
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: LIB104-063-Q1-E1-D2

 <400> 6426

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atacatgtca cgaatgcac attgcacac ccggtacagc gcgggacgca ttcacatagc   180
agcacatgtt gttctaacta gtgcagttgt attcttgagt tgtaaataaa tttaaagtgtg   240
gatgtcatca atgatacagc attgtctcac gtgaagacag aatgatgaat actatgattt   300
ccccacaagt ctggattcaa ctcccgttga tttacaa                               337
  
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<210> 6427
 <211> 361
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: LIB104-063-Q1-E1-D3

 <400> 6427

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ggcttactag ggacacattg tgggtctatgt attcacacat gtattacgat ttccggataa   120
cacaattata gcatgaacaa tagacaatta tcatgaacaa agaaatataa taataaccat   180
ttattattgc ctctagggca tatttccaac atcttcatcc cgcgccttcc acagattgat   240
aaactttagg tcatccactt aagggaaatt tggtactgtg ctacaaaacg aggetcaaca   300
cgagtctaaa aaataagttg tatagtagac atcaagttct cttttggcgt cgtaaccggg   360
g                                                                           361
  
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<210> 6428
 <211> 439
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: LIB104-063-Q1-E1-D4

 <400> 6428

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 gcgttagccg atataacgga acgtaaggca gcaaaacaca ggaaccgggc aaaccaaca 180
 tttgaccaa gacatgattt ggagctgatg catataaggc caaactcgcg acgccgaaca 240
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 ccctgggtgc caggtacgcg caaaattctg gcgtggccac atgccaaaac gccagcctcc 360
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 gcacggtctt aatctaaaa 439

<210> 6429
 <211> 349
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: LIB104-063-Q1-E1-D5

 <400> 6429

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 ttttttagt atattcagac atgtttttcc tctcttattc ttcatttttt aacttcttca 180
 taattgatta gataactttt aaggcaacat gttgtgtgtc gaaaagctta gggactcttg 240
 tgtgtacgtg aaacactttg atcaatagac tctttagttt agaaaatgat gaaaaaatat 300
 ttaaaaaaat tcttcagcg aaaatagga gaataaatt ttcattgggc 349

<210> 6430
 <211> 98
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: LIB104-063-Q1-E1-D6

 <400> 6430

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<210> 6431
 <211> 427
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: LIB104-063-Q1-E1-D7

 <400> 6431

cccgggtcga cgggacaaag aaatattaca ctcacagttc taaatatacg tctcaaagaa 60
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 cttttcgtct acaagtttaa ttcactactg agtcactcag caatgtagga cccacttgca 180
 tgacaaacag agaaagaaaa caatcagttt aggagggaca tgaatcttag atctactcga 240
 ttctagaaac gatggcaccg caacattaga agcagcaa at ggaccaacac aatcgactac 300
 accgtgagga gattagcaac accaatgctg gatctgtgat gcatcgagga aagatgggca 360
 gggaatgaac gaaaaaggta accaaaagga agactcactg tgctttgttc tagaaccttc 420
 ctactgg 427

<210> 6432
 <211> 318
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: LIB104-063-Q1-E1-D8

 <400> 6432

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 cgccaccgga agcaaagagg agagagcccc cttcttcttc gtcttccctg acctctccc 180
 tagatgggag aaaggtttcc cctatgattc ttggctccca atggttggga agggcgagag 240
 cccctccgag attggatcta actctctgtc tctctctgtc cctctccgtt tctgcttccc 300
 tgattctgcc cttcaacg 318

<210> 6433
 <211> 455
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: LIB104-063-Q1-E1-D9

<400> 6433

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 tacacacctt ttgagagaga ctcacatgat ttgaaattta ttagaatact ctatgtgctt 180
 cacttatatc ttttgagcta tatagttttt gctctaagtc tttacttata tcttttagag 240
 cacgggtggtg gttttatttt atagaaataa ttgatctctc attcttcact tatattatct 300
 tgggagtcct ttagaacaac atggcaattt gcttttaggc ataataaaaa ctttcatata 360
 agtgcattga atactaagag aagtttgata attgatgatt gttttgagat atggagatag 420
 tgatattaaa gttgtgctag ttgagtagtt gtgaa 455

<210> 6434

<211> 435

<212> DNA

<213> Triticum aestivum

<223> unsure at all n locations

<223> Clone ID: LIB104-063-Q1-E1-E1

<400> 6434

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 tgcagatgta atcgatcggc aatgacatca agtcaaagga atgatggagc gaaagggtat 180
 tggaatcatg ggtacaacac aaactcgaaa tcaagcttgc tgttcaaggc gaaaagtgat 240
 aagacaagga agatcgatgt aagcttaacg cattgttgga agttgtgctc cggaagaag 300
 gaccacgtag catagttaaa atttagcatg gtaatgatat agccgatcag gctangaatg 360
 actataagga ttattaaact cgtaagcaac aaacattacc tagagttata gaatcggagt 420
 gtggaatcga ttcac 435

<210> 6435

<211> 263

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-063-Q1-E1-E5

<400> 6435

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cgcgcgctgg cgtggtggac ggagccgacg gatccctgga aatgaggcgc ggcacggagc 120

gagagactcg gtgggagacg agggatactt cgcgcgggga ataaaagatt actgctcaat 180

gcacgggctt ttctgaaatt ttctgaaatg gcctgtttta tcgaagcgtt tcctgtcaaa 240

ccctcgccgt cgctatgcag cca 263

<210> 6436

<211> 460

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-063-Q1-E1-E9

<400> 6436

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ttaaggatat gtgagtacct atttatacta ctctatgagt atctccaaga gatgcacaca 180

accgtcgcga tgtgacgtac cagcaagtca aactcaacat aagctaaagt gtggaatact 240

gatgatgcaa cacctcctac tgaagaatgt aaagcctcaa tgataacgac atacataaag 300

caaccaagta accctcttgt gaattgtata gccagagccc cggctaaacc tgcattcagg 360

aataatgtta ttattcaaac aagcaagatt gaagcaagaa tatcctgaac tactactaac 420

agaattctat catcattaag gagtatacat ttcaaccttt 460

<210> 6437

<211> 466

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-063-Q1-E1-F1

<400> 6437

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ctccgcgagg actacctcga gtgcctccac cactccaagg agttccagcg caggaacagg 180

atctacaagg aggagcaacg tcagataaga gctgctgctc gcaaggccaa ggacgaagcc 240
gaaggagctc ctgctgttgc agctcaccac tagcatccgt ttttatttgc tgcaagtgtc 300
tccatgttcg gctatgagca aggcaataat ttctaaaca ttctaccctc ccactccatg 360
acttgttcca aaatcatgag ttcgataaac aaccttggtc aacaagtttg tgcattgttg 420
agatattaag cgataataaa cgcttgattc aaccatgaaa catgat 466

<210> 6438

<211> 449

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-063-Q1-E1-F11

<400> 6438

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gctgttgaca aaccagttga aacggtcgca aggtctgtg gccatgcagt actggtagat 120
gaggacatga tggcgacgc acaattgagc gacggcaacc ttctaatacta tgccgggacg 180
accggcggtg tactgaaggt cgatgccgac caccttgtag ttgtctccag caagcaactg 240
ctcaatgcgg ttgatgtagt catccacat gcccgagtcg atggtgtata gaaaaaatga 300
aaatgttttt gaaaacaaag gataaaataa aaacgaaaaa ggataaataa aaggaaagaa 360
atagaagcag aaacagaaaa aagcacaaca aaaaagaaaa aggaaaacgg agaaaaccag 420
aaaaccggca aaaggaaaaa aattaaaaa 449

<210> 6439

<211> 447

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-063-Q1-E1-F3

<400> 6439

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gggctactac gacaagatcc ggggcatgta ctacgagaac ccggccaaga cgggggagat 120
cgtggcggtg taccagccga gccacgagga gaagcaggag tacgcgtcca acgagcacia 180
ccagaaggcg ctggcggaga tctacctgt cagctactgc gacaagatcg ccatgagcgc 240

ctgggtccacc ttcggttatg tcgctacgg cttcgccggc gtcaagccct ggatcctgct 300
 ccggccggac tggaacaagg aagtgtccga cgtcgctgc gtccgggtcca cgtccgtcga 360
 gccgtgctg cactcgccgc cgatactcgg gtgcccggcc aagaaggagg tggacgtggc 420
 ccggtcaag ccctacgtcc gacactg 447

<210> 6440
 <211> 429
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-063-Q1-E1-F6
 <400> 6440

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 tgacaccaca caacagatat gctgctgtca gcagtcctct ctaaataagac actgcaatta 120
 tcgtataagt acatcattgc tgctgtcagc agtgcctctt aaatagacac tgcaattatc 180
 atgtacatca ttgctgctgc aatgaacat taagagatta tttaaaatcg agcctaccat 240
 ctgctgtgtc gtcaacagag gggtgaggcg gagttacaaa atctgtatga gaaaccgagg 300
 gattgtccga gtcagcgaca tctttgttat cttcagagct gtcagaagca gctgagatgg 360
 cgtcacctga ttctgaatgt gttctgtcca catatgcttc aggtaaggag ctctcggcca 420
 cgtcagcat 429

<210> 6441
 <211> 384
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-063-Q1-E1-F7
 <400> 6441

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 gagacttggc tctgaatga tcgttctttt ttctctctct acccgcgcca ccttgcgtgca 120
 caggagggat tgctaacaca taatactgcg ctgcacctct gaaggaaaat tagtagccac 180
 catgaacgag gatcatgccc ggctcggtaca tttctttgat gcatcttgtt tgttcacctt 240
 gctgtataga aagatgagag atcagtgatc ggaaccgatg cattctgagt tagagattat 300

ctgttcttcc gtacaggggtt caaatatcag ttccgtacc accatggcga ttactatctg 360
 acatggagtc agcttttcgc aaga 384

<210> 6442
 <211> 365
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-063-Q1-E1-G10
 <400> 6442

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 tagacggatc ctctacgcg catgcactca gtgttctactg aaatctatct ctatgaacta 180
 ttgctcgaac tgtggtcaag aaatatgttg aactcgctcc atcttcatca gacatctgta 240
 cactatacga tcctgtctcg atagttgcag tcatcatgcc acgtatatcc tcagtctcat 300
 gacttctcta ctgcctgtac tcatatactg tcatcatcat atctcaattt ctctctctcc 360
 gttcg 365

<210> 6443
 <211> 370
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-063-Q1-E1-G11
 <400> 6443

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 actaaagagg cgtgctacca cagatgcggg agcgtgaaac cccactgcaa accaatgttt 180
 tactgcctca agtaatcgtc gctctcacgt gctgagtcac tctcacattg tcccgtagtc 240
 atatgtcgag tgcattcgtt agtaaccgt atcaatagtt gaactcctca ttcacgcag 300
 cgtcctctct aaaggattca atcctacatg cacgtacaca cgtcgtccta gctatacgaa 360
 attctctctc 370

<210> 6444

<211> 447
 <212> DNA
 <213> Triticum aestivum

 <223> unsure at all n locations
 <223> Clone ID: LIB104-063-Q1-E1-G12

 <400> 6444

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 tgtcacggta ggagggaaag catttgcaac atacaccaat gctaaaagaa tagtgaaatt 180
 ggtaaattgat gttgggtgctg tggatgaaca tgatgctgac gtcaaccaat atctgaaggt 240
 ggtgttcatt ccaaactaca acgtatcaat ggctgaagtg ctcatctctg gcagtgaact 300
 gtcacagcac atcagtactg catgcatgga agcaagtgga acaagtaaca tgaagttctc 360
 tctgaatggc tgtgttatca ttggaactct cgatggagcc aatgttgaaa tcagagaaga 420
 attanggcaa gacaacttct tcctttt 447

<210> 6445
 <211> 443
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: LIB104-063-Q1-E1-G3

 <400> 6445

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 tcggtaagc acgtattcaa tgttgcaggt gtaccgatag aatgggaaga acattatgtt 180
 ggtacggaag ttgatccag aacagagagc tttttgacat gggagagcct ggagtctgtg 240
 cgtagaaaca aagttggctt gaaaggctct atggctacac ctattggaaa aggccaccgt 300
 tctttgaatc ctacattaag gaaagaactt ggactctacg ccaatgtcag accttgcaac 360
 agcctcccag gctacaagac tagatatgat gatgtgaacc ttgtgacaat ccgtgaaaat 420
 actgaatgag agtatactgg cct 443

<210> 6446
 <211> 437

<212> DNA
 <213> Triticum aestivum
 <223> unsure at all n locations
 <223> Clone ID: LIB104-063-Q1-E1-G4
 <400> 6446

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 aagggtgatg actcaacata aaagtaaata gataggccct tcgtacaggg aagcagggat 120
 ttgtagaggg gccagagctc gatttttaaaa tagagatgga ataacatttt gagcggcata 180
 cttttgctgt caacgcaaca actatgatat ggctgtatct tccatactac atgcattata 240
 cgcagttccc aaacagaatg gtaaagggtt atactcccc aaccaccaac aagcatcaat 300
 ccatggcttg ctgaaacaa cgagtgcctc caactaacia caggcctgng ggagttttgt 360
 ttaattatgt tgatttgctt tgatcttttt ggatcaaagg actgggcatc ccggttaccg 420
 gccctttctt gtgaatg 437

<210> 6447
 <211> 451
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-063-Q1-E1-G6
 <400> 6447

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 acccgagat gatcctggcg gcgaccaaca acggcgacat cgtggacgcc taagcaaagc 120
 aatgaaccac ggacaccaag gcgtacgtac gctggtgttt cggggcgaaa aatcaataag 180
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 acctgcccgc catgtgctct gctctgctct gcctcacggc agctccatgg atgatgaatc 360
 cttatggaac aagaggaggg aataaaaagg ttgagttcta tgtaaaaaaa aaaaaaaaaac 420
 aacaaaacia aaaaacaaaa aaaaggaaaa a 451

<210> 6448
 <211> 199
 <212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-063-Q1-E1-H1

<400> 6448

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ggagtcgacg gaacactgac actaactaca ggttgggtcaa aggttcaaag aaattctcct  180
ttaaattagg ccaatgcta                                     199
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<210> 6449

<211> 473

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-063-Q1-E1-H5

<400> 6449

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atcaaacttg ttatgataat tggacgggct agaatcagat gctttgcccc aagagaaatc  120
ttccagagct tgaatgggtgt ctcgaactgg tgggataaag ctcttgtgtg ctaccttggc  180
cagataggta gtcttcagag aatgatcaat gacttggttg atccaaggag caaagaattt  240
caggcacatt gggtgatgcg cagaatcctt cagaatgcgg aggaataagt cttcgacatc  300
gaagacaaat cgatgagaaa tagcatatat tgtgttccga agaacatccg agattgatcc  360
atcagtattc ataccgtcca gaggacaaat agtatatgtg agcagatgat aaatgggttg  420
attctcgaag gtcaaatget taagcatcgg agggccatca taatccttaa tct         473
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<210> 6450

<211> 407

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-063-Q1-E1-H6

<400> 6450

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atgatcatgt agttgacatc gtatttgtgg caacgccacc gttcataatt ctttcataca  120
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tgtcactctt gattcattgc atatcccgg acaccgccgg aggcattcat atagagtcac 180
 attttgttct aagtatcgag ttgtaatagt tgagttgtaa gaaaatagaa gtgtgatgat 240
 cttcattttt agagcattgt cccaagtgag gaaaaggatg atgggggacta tgattcccc 300
 acaagtcggg ataggactcc gaacgaaaaa tcaagaggcc atacatcaga agagaagaaa 360
 atgccaaga caaatagtat atgtgagcaa aaaaaagcgg ccgctct 407

<210> 6451
 <211> 367
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-063-Q1-E1-H7

<400> 6451

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 cttgtgttga cagatatgac tatctactgc ctgtagccta cctgggatac catcatatgt 180
 tgctgaatat ggtactactt ttatcctgct taagttctgt attttgcct agttgaaaaa 240
 caagcatagt aatgaatctt cttttttaa acattgtccc aggtgaacaa gacgatgata 300
 gcgactatca ttctcccaga gactccatat atgactctta gtgatcacat aaagaggcca 360
 tacaaga 367

<210> 6452
 <211> 438
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-063-Q1-E1-H8

<400> 6452

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 gccacggcga cggcaagaag gacggcgacc acaaggagaa gaaggacaag aagaagaagg 180
 acaagaagca cggcgagggc cacaaggacg acgacggcca cggcagcagc agcagcgaca 240
 gcgacagcga ctgagccagc tccggccgag ctccggcagc agcgtgcagt gtaggcgaga 300

tcgatgaacg cttgggagaa gtgtggcata catatatgtt gcagggtttg gagcgtgtgg 360
taccatatgt atgtaatgcg tgacatgtct caatggatct gtgatgtata ataattagcc 420
ggctgcactg cactgcac 438

<210> 6453
<211> 322
<212> DNA
<213> Triticum aestivum
<223> Clone ID: LIB104-063-Q1-E1-H9
<400> 6453

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gctctcacca taacacgacg gtcacttggga tccttctcca cagaggtgct taatcatgct 120
cgtocattgc agaggcggag ggcacgcac agggctaact taatgtctgt tatggtatct 180
aaggtgccac ctgatgcgaa catggcagac caaggtggtg aaacaggaca tgattcggag 240
ccgatgcata tagtactatc tattcgggtgt gacccaactg tgacagtgtt ccgacttaac 300
agaccatact ttgtggtacc ta 322

<210> 6454
<211> 365
<212> DNA
<213> Triticum aestivum
<223> Clone ID: LIB104-001-Q1-E1-A10
<400> 6454

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ttgttgatc acgacctgaa tgaaataaac gaaataatgc tcttgttcaa acatcaaaaa 120
aaaaaaaaa aaaaaacaaa caaaaaaaaaa aaaaaaaaaa gaaaaaaaaa aactaaaaa 180
aaaaaaaaa accaaggaaa acaaattatt aaaaaaatca aaaaaaaaag gccctccaaa 240
acaatcaaat ctaacttacc cttcccttca acgcaaaatc cctcccatc taaaccctaa 300
ctaaaattaa aggcccggcc tttaaaagta cccgcacggg aaaaacacaa cctttaccca 360
accaa 365

<210> 6455

<211> 434
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: LIB104-001-Q1-E1-C10

 <400> 6455

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cgatggcgag tcggcgccgc gagaccgcag tgagcgcatc tgccaccctg ccgctcctcc 120
tgtagccggc gtgatgacga cgaagatgac caccgtcggg aggaccaaga ccgagatcgt 180
cggggccgtg acggctccag gaacggcagg ggctgggggg agaggggtgcg tcgcagcctc 240
tcccgcgccc cccgggacga caaccgcgac cgtggctcgag agcagcaagg aggtcgtgat 300
ggcggtcggc gatgccatga ggaagtggcc cttcgtctgc tgctacgtgg ctccggctcc 360
tccagcgtgg tggccgcaca cgatgccgag atggtgccag ttgctcctcc gccgcctggc 420
cgtacaatct cccc 434
  
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<210> 6456
 <211> 148
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: LIB104-001-Q1-E1-C11

 <400> 6456

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gatttttgca gtgggatttg tagggtaacca tgctgcgctg tgtttgggag ttgacatcgg 120
tccatgggat atgtgccacg ctcttaaa 148
  
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<210> 6457
 <211> 404
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: LIB104-001-Q1-E1-C9

 <400> 6457

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ttcccggtc caccgggacg tccgtgaacc ggtgctccag ctgccggaag cgcgtggggc 60
tgacggggtc ccggtgccgg tgcggcgaca tgttctgcgg cgagcaccgg tactcggacc 120
  
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ggcacgggtg cagctacgac tacaaggccg ccgccaggga cgccatcgcc agggacaacc 180
 ccgtcgtgcg cgccgccaag atcgtcaggt tctgaagctg aaaccaaggg gaaagaagaa 240
 ttcagaattc cagccgaggc aaagcaaaga atcatctcat cgaggcagtg ggccgccgtg 300
 cgagccgcta gtattatgct gttgttctcc ggagtgttcc cttttttaat taaaaaaatc 360
 tttatttatt ggaaggaaaa aaatgggagg taaagatgtg gatg 404

<210> 6458
 <211> 451
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-001-Q1-E1-D12

<400> 6458

ctgcagttcg gtcgacaatc cgggtcaacg ggctgggacg aaaaggcacg ctaagagggc 60
 atcaaataat atgtatggac gggcattctc tctactgaagc aactacaca gttctacaga 120
 attccgcctt ggtgggtccg tatatggacg aacacaagaa ttttctacag tccaaacacc 180
 cggagaattc tgacgactag attacacgtg aacaaacgag gacttttgcc ggttggttgc 240
 agaaacatgc cctgaatgat ggtgatattc aaaatgacct atactcgctg tcccagttac 300
 catcttcgaa tataatgact ttcaaagggt accagataaa tgggaataca ttttacacga 360
 tcgccaaga taagaagagc agcaagcaaa acagtgggtg ctgcttcgat gcaacaacca 420
 acacgggaaa ggaagcataa taggggtaca t 451

<210> 6459
 <211> 391
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-001-Q1-E1-H12

<400> 6459

gtccccgggtc aacgggtcgg tgcattctcat gatctggaac tgcaccatcc ccggaaagca 60
 cgggactgat tgggaaagtg gatactaccc acttactctc cacttactg aggactaccc 120
 tagcaaacct cccaagtgc agttcccgca tggttttttc caccctaatg tctatccttc 180
 agggacagtc tgcctctcga ttcttaatga ggatagtggg tggagacctg ccatcactgt 240

taaccacatt ccagttggaa tacacgagtt gcctgatcaa actaatccag ctgatgctgc 300
ctagactgat ggttatcagc tcgttatcca cgatccagca gagtacaaga gaagcattcg 360
gatgcaggcc aagcactagc ctgcctctgg t 391

<210> 6460
<211> 195
<212> DNA
<213> Triticum aestivum
<223> Clone ID: LIB104-001-Q1-E2-A10
<400> 6460

cgggtcgacg ggaggttcac gggagagaag cgacggagtt agaagttgta aatatgcatt 60
gttgatcgc gacctgaatg aaataaacga aataatgctc ttgttcaaac gtcaaaaaaa 120
aaaaagaag taaagaaaa taaatggaaa agatatatta atgtaaatga aatgaaaaat 180
aaaatgtatc caagg 195

<210> 6461
<211> 358
<212> DNA
<213> Triticum aestivum
<223> Clone ID: LIB104-001-Q1-E2-A11
<400> 6461

aacgtggatg tggacgagtc gगतगगगग ctcttagatg atgaaaagaa acccgatatc 60
acgaaacgac cacacactcc tattggagat gaggtggaat gcaagaagcc aaagatagca 120
gaaggctcaa ggtgccaagg agaagaacct gaggctggag ggataaagaa ttcctcctgg 180
gtctgatgac aggggaatgc agtaaacacc agaagcatca aaactatgat ctggaacagt 240
atcctgaata aactattttc tggattatga atgaattctg aagcatgggg ctataagtga 300
attatgtaac atggatttgt aactatgggtg gatgttaagt taacgttcta tcagtgcc 358

<210> 6462
<211> 396
<212> DNA
<213> Triticum aestivum
<223> Clone ID: LIB104-001-Q1-E2-A3

<400> 6462

gggtcgacgg gtgtgatgtg cttaagatgc agatcctcaa caggaaccct acgacagatg 60
gtattgcagt taagaggaaa ctcaatgctg atggatccta ctataaacct gagtagtatc 120
ccaaaacctc atgggttact gcaaaaggac ctcccgtaga tccatcgact ttatctgggt 180
ttacatgtga atcctcatat tcatctgatg agtcatctac tctaactaga aattgttcaa 240
aaataatcat ggtgaggtat ttgccagata tgttggaact aattgcagga acggctctcc 300
tatgaagaaa atctgggttc caaaatatg ccttgaaagt cttcaggtga atgtcctcat 360
gacaccacct gtgaagaata ggaacccac atcaaa 396

<210> 6463

<211> 364

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-001-Q1-E2-B11

<400> 6463

ggtcgaaata cccgggtcga cggggaccac aaggagaaga aggacaagaa gaagaagaag 60
gacaagaagc acggcgaggg ccacaaggac gacgacggcc acggcagcag cagcagcgac 120
agcgacagcg actgagccag ctccggccgc gtcocggcag cagcgtgcag tgtaggcgag 180
atcgatgaac gcttgggaga agtgtggcat acatatatgt tgcagggttt ggagcgtgtg 240
gtagcatatg tatgtaatgc gtgacatgtc tcatggatct tgtgatgtat aataattagc 300
cggctgcact gcactgcacg gtgcttgtaa taataacggt aatgaatcat gttggtattg 360
atac 364

<210> 6464

<211> 445

<212> DNA

<213> Triticum aestivum

<223> unsure at all n locations

<223> Clone ID: LIB104-001-Q1-E2-B2

<400> 6464

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tcctgaaata aatccaggaa taatgcgagc accaggattt gaaccctggt gggttgggga 120

taccactgtc cacctaacca actcaaccac aggttgattc gcaatgacta catgtattaa 180
cgaattacta catgctcatt ataattgctc ttttacgatg ctaagatggg tagttatgat 240
caattagtgg tttagagggt aggcgtcgag gtaacttggt actattggct tttttttga 300
ggaatgtggg cctgtcgaag cggtggactc tgggtgttacg ttagaatttt cacagatgag 360
cgcaatgcac aaaaaaagga aaccaaagac ttcccaaatac tggcagcatt ccccaccatc 420
tccttcctct agaacattct gtctc 445

<210> 6465
<211> 304
<212> DNA
<213> Triticum aestivum
<223> Clone ID: LIB104-001-Q1-E2-B3
<400> 6465

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aagtagatgc acagtcagga ggcgatttaa gtttttataa aatacccatt gttcatgctc 120
caagtgtacg ctaagatgac caactatggg cagtcagtcg tttagaggcc tagcctccag 180
gtgcattgta cctcaacatc aattatggca cagatattca ccttcctett caagattgat 240
ccagatgaga cgcaacgatc tgtataccat ctcgatgagc aatttctgaa ggttgtaa 300
attt 304

<210> 6466
<211> 186
<212> DNA
<213> Triticum aestivum
<223> Clone ID: LIB104-001-Q1-E2-C11
<400> 6466

cgggctgacg ggcaatggag gatgtaggtg tgatatgtca agtagtggac agataagcca 60
accactggat gtggttttca gggatttttg cagtgggatt tgtagggtac tatgctgctc 120
tgtgtttggg atttgaaata aaacgatggg agatgtgcca cgctcttaaa aaaaaacagg 180
agaggg 186

<210> 6467
 <211> 125
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-001-Q1-E2-C12

<400> 6467

aacgctaaat tgagtcgtat tatgtcatgt agtggccaat taaccgacac acaggatgtg 60
 gttttcaagg atttttgcag tgggaattgt atggtactat gctgcgctgt gtttgggagt 120
 tgaaa 125

<210> 6468
 <211> 452
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-001-Q1-E2-C4

<400> 6468

cggtcgaata ttccgggtcg acgggtgtat ttgatgcggc aataaatgtg gtacttgcg 60
 caccaaagtc gaagaagaag aaaaaggcgc agaggggggc ttgctccatc ttgtgatcta 120
 atcatcggtg gacaaagaac aagggcggaag ttgccgcat gctatattat tgttacgtct 180
 tgcttcagcg gagctgcact ctcatggtcg tcgtccctcc cccctacccc accctaggtt 240
 acccaccggc agctgcagca aggtctcttt gtcgaggcat cgggcgatcc atttgtttga 300
 tttctcttct tctgccttg tgattatctc gtgtgactga caagtcgtgg caatttaggt 360
 aacttgctta gtagacggta tttcccggtg ttgagacccc gtaaaaaaaaa agtatctcgt 420
 tgttatctcg gttccataag tagagacatg at 452

<210> 6469
 <211> 405
 <212> DNA
 <213> Triticum aestivum

<223> unsure at all n locations
 <223> Clone ID: LIB104-001-Q1-E2-C9

<400> 6469

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ggggtcccg tgcgggtgcg gcgacatgtt ctgcggcgag caccggtact cggaccggca 120
 cgggtgcagc tacgactaca aggccgccgc cagggacgcc atcgccaggg acaaccccg 180
 cgtgcgcgcc gccaaagatcg tcaggttctg aagctgaaac caaggggaaa gaagaattca 240
 gaattccagc cgaggcaaag caaagaatca tctcatcgag gcagtgggcc gccgtgagag 300
 ccgctagtat tatgctgttg ttctccggag tgtttccctt ttttaattaan aaaatcttta 360
 tttattggaa ggaaaaaaat gggaagtaaa gatgtggatg aaaaa 405

<210> 6470
 <211> 402
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-001-Q1-E2-D1

<400> 6470

cgggtccgaga atcccgggtc gacggggcgc ctgtcctaca actatgacaa taccctgact 60
 ctcaaggggc gcttcaactc ggatcttcat gtgggcggga tgatacagtt tgaagaaagg 120
 ttggctagta ttgtgttgcg ggcaacaggt gatgttgatc ttcgtgctat gggtcagcag 180
 ccccgggtcg ggttccaagt ggtgtttgac ccgacctgga agtaagtagc ctttgccctt 240
 gcagtgttgg tgcttgtttt gcttttgctt gggaggaact tttttggtaa aacggaaggt 300
 cttgattttg ggttgtccat gatgattgat gtatggactg aagctttaga cttgtcaatt 360
 cgactatgtt ggttttgcgg aagcttgatt gtcctctcat ac 402

<210> 6471
 <211> 436
 <212> DNA
 <213> Triticum aestivum

<223> unsure at all n locations
 <223> Clone ID: LIB104-001-Q1-E2-D12

<400> 6471

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 aataatatgt atggacgggc attctctcac tgaagcacac tacacagttc tacagaattc 120
 cgccttggtg gctccgtata tggaggaaca caagaatttt ctacagtcca aacacccgga 180
 gaattctgac gactagatta cacgtgaaca aacgaggact tttgcógggt ggttgcagaa 240

acatgccctg aatgatggtg atattcaaaa tgacctatac tcgctgtcnc agttaccatc 300
 ttcgaatata atgactttca aagggtacca gataaatggg aatacatttt acacgatcgc 360
 ccaagataag aagagcacca accaaaacag tgggtgtctgc ttcgatgcaa caaccaacac 420
 gggaaaggaa acatat 436

<210> 6472
 <211> 157
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-001-Q1-E2-D2
 <400> 6472

acgggtccgac tattccgggt cgaccggaag atcgactaa ctgagctgac agacgctcac 60
 tcgaaacggg ggtctcaacc cgcatgataa gttcagcgca atacgacaga tatcaaaacc 120
 gatggctact gctgcattga ggtcaacaag tgaagtt 157

<210> 6473
 <211> 418
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-001-Q1-E2-E10
 <400> 6473

cgggtccacg ggggttaatca taagtaggag gtttgttcaa gtaagaacag tacctaagca 60
 ccgggtccacc cacatatcaa attatcaaag tagcgaacac aaatcaaadc aacatgatga 120
 aagtgactgg atgaaattcc cgtgtaccct caagaacgct ttgcttattg taagagatcg 180
 ttttggcctg tcccttgccct caaaaggatt gggctacctt gctgcacctt tggtactatt 240
 accattactt gctcgttaca aaatatcctg ctatcaaact actatgttac ctacaatttc 300
 agcacttgca tacattacct tgctgaaaac cacttgatcat taccttttgc tcctcattgg 360
 gttcgacact cttacttata ctagaagagc tacaattgat cccaatactt gtgggtca 418

<210> 6474
 <211> 412
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-001-Q1-E2-E2

<400> 6474

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ttgttcaccg catcgtaact ttgcacccgt agctccgttt tgggcgtgta gcatatcaaa 120
ttgttcacat ggatatgcac ttcatttcat tccattgtac catattcatt tgagggtcatc 180
ttgatgccct aaatgctgtt gcaagagtgc tatgtaatgt tagtttcaga ttcttaccag 240
attatcgaca tttgtcattt ttgccatgtt taatgatgag gacatgacta ccttggatat 300
gaccaaaaat attgcatata tgcataattg tcagggtgatt tctagtgcaa actattcaat 360
aatctattta tgttatccag aacaaaaata cttcacacac ttttgtgttt tg 412

<210> 6475

<211> 444

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-001-Q1-E2-E3

<400> 6475

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tgccatatgtt aaaccatata ttgagaaatt caacgctgac gaagaagaga ctaatatttt 120
gcaggacgct atggaagaag aaattgatga aactgtgagc tcattggatg aaagagatga 180
tgaggagagc gaagaacaaa ggaggaagag cggattagct acccgtgtcc accttctaata 240
gagagtaacc ctccaactca tacattattt aattcccctt cgttcttacc gaaggatgat 300
tgctatgatg attgctatga tcccttgaat ttgtttgaaa tatccctttt tgatgatgct 360
ttctatgctt gtggccaaga tgccaatata aattatgctt atggacatga acttgctaga 420
gtccttatgt taaacatgaa attg 444

<210> 6476

<211> 438

<212> DNA

<213> Triticum aestivum

<223> unsure at all n locations

<223> Clone ID: LIB104-001-Q1-E2-E4

<400> 6476

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 ggacacgaag ttttatccag gttcggggccc tctcgatgga ggtaaaaccc tacgtcctgc 120
 ttgattaata ttgatgatat gggtagtaca agagttatct gttttgtgca ggtacgaggg 180
 actcgtgcat agcctcctac tggattgata ccttggttct caaaaactga gggaaatact 240
 tacgtacttt tgctgcatca tcctttcctc ttcaaggaaa tccaacgcag tgctcaagag 300
 gtagcagacc tttccttaga acgtttggtg caattattga tatgaaggaa gggaatatta 360
 tattccaatt tccgttaagg aaaggcatgg aacacttccc tagaaagaaa aataaattac 420
 cttatgaatc tattatga 438

<210> 6477

<211> 289

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-001-Q1-E2-E6

<400> 6477

ttcccgggtcg acggggcgggtg gcgcgagctt ggagctgctg gaaggcaagc ccctcccagg 60
 tgttcttgcc cttgacgagg cgtagggtga ttcgggttca cctatcagct tgctgcgtgc 120
 cctttgtttg ggatctcatc ttggtctaac gctggaacgt tatatgtccc aatgaaactt 180
 tgacatagggc ttgtcgccaa tttttgctag taaatgagtc gtgaataagt atcaatttgc 240
 tccgtgcgag tgaactcatg tgactggaac ttaacgtagc cccgtcgat 289

<210> 6478

<211> 124

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-001-Q1-E2-E7

<400> 6478

acgcggccgt acggactgaa ttcgggggtcg acgggaagat ctactgact gagctgacgg 60
 acgcgctgcg gacgtggggg tcgacctccg cggacgaagt gctgcgcatg atggcggaga 120
 tcca 124

<210> 6479
 <211> 211
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-001-Q1-E2-E9

<400> 6479

tcgagggcaa ggggactggc atggatgcat cctgtgtgga tgcattcagc caaccaactt 60
 cctacggata atggtttgtt accattccca agaattgcta ctttttcttc gcatgttggg 120
 tagtttgctg tatcatgacg cagcttgta cctagacacg cttctctggc atatattagc 180
 tcggtgattc aataagaacg tctcgtttcc g 211

<210> 6480
 <211> 410
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-001-Q1-E2-F1

<400> 6480

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 gccatagccc agtctgcgcc ggattctgtg ctgatgacat tggcggagtt tgagacggca 120
 agagaggcgt ggaatgcact caaagagatg aggattgaat aaaatcgtgt cacgaaggct 180
 cgggcacaag tgctgaagcg ccaatttcac aagttgcaga tggagaaaac tgaatcgggtg 240
 aacgactatg ccatgcgctt gactactttg gtgggagaga tccacgcgct tggtgcaaag 300
 ctgcacgaga ccgagattgt ggagaagttt ttcagttcgg tgactgataa attcacgtac 360
 atcatcggca cgctcgagca gctttacgac atcgacgaca tgaccataac 410

<210> 6481
 <211> 412
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-001-Q1-E2-F10

<400> 6481

cgggtccacg ggaggggttg atttcttctc taagtccttt ttcctcataa catatgccct 60

tggtcaccgc atcgtaactt tgcacccgta gtcctgtttt gggcgtgtag catatcaa 120
 tggtcatctg gatatgcaat tcatttcatt ccattgtacc atattcattt gaggtcatct 180
 tgatgcccta aatgctgttg caagagtgtt atgtaatgtt agtttcagat tottaccaga 240
 ttatcgacat ttgtcatttt tgccatgttt aatgatgagg acatgactac cttggatatg 300
 accaaaaata ttgcatatat gcatatttgt cagggtgattt ctagtgcaaa ctattcaata 360
 atctatttat gttatccaga acaaaaatac ttcacacact tttgtgtttt gt 412

<210> 6482
 <211> 229
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-001-Q1-E2-F11

<400> 6482
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 tgtgcatttc atcgtaacgt tatgggcatc taaccgtgat gggcgtgtag catacatatg 120
 agtcaactg gagatgcaca tcacttcgat ccattgtacc agattcatga gatgtcaacg 180
 ggcatgcca gatgctgctc aactagtgtc ctggagcatg atcttcata 229

<210> 6483
 <211> 443
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-001-Q1-E2-F3

<400> 6483
 cgccacggtc cgtacaatcc gggtcgacat gggcgacatg ctgatgatgg acagggtccg 60
 tcaatggcag gccacgcaca accggtcgta cctgagcgcg gaggagaggg tgcgtcgctt 120
 ccgggtgtac cgcgacaacg tggagtacat cgacgccacc aaccggcgcg gcgacctcac 180
 ctacgagctc ggcgagaatg agttcgccga cctcaccag gaggagttcc tagccaggta 240
 cgcgtcgctc tacgatgggg tcgggtgatga tactggcatc acgttgcttg tggggcggtg 300
 cgacgccgag ctgtggctgt ccggggcgga caatgatagc tccttgagg ctccgcctcc 360
 cagctgggac tggagatcca agggcgccgt cacaccggtc aagtcccaag gcgcaggatg 420

cgctagctgc tgggcgttcg tga

443

<210> 6484

<211> 388

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-001-Q1-E2-F4

<400> 6484

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agccgcggta caagaagcac gacgacgacg atgatgacca cgagaggagg ccgcggtaca 120

agaaacgtga cgacgacgac gatgatgacg atgacagaaa gccacgttac aagaagcgct 180

acgacgacga cgacgatgat gataggaagc cacgttacaa gaagcacgat gatgatgatg 240

acgacgacga tgataggaag cagcgtcgcg ggaacaaccg ccgccgccac gatgacgatg 300

actgattatg acatgagttt aagctgacgc taataagcat agttgcggcg gctttgcatc 360

gatgaattac gacatttcac tttttttc 388

<210> 6485

<211> 432

<212> DNA

<213> Triticum aestivum

<223> unsure at all n locations

<223> Clone ID: LIB104-001-Q1-E2-F9

<400> 6485

gggtcgacgg gtacttgaat attgttatga taattatgct tctaattgcct atgttaaacc 60

atatattgag aaattcaacg ctgacgaaga agagactaat agtttgcagg acgctatgga 120

tgacgaaatt gatgaaactg tgagctcatt ggatgaaaga gatgatgagg agagcgaaga 180

acattggatg aagagcggat tagctacccg tgtcgacctt ctagtgagag taaccctcca 240

tctcatacat tatataattc gccttcgttc ttaccgaacg atgattgcta tgattattgc 300

tatgatcnct tgaatttggt tgaatatatcc ctttttgatg atgctttcaa tgcttggtggc 360

caagatgcc aatataaatta tgcttatgga catgaacttg ctttagtcct tatgttagac 420

atgaaattgt tg 432

<210> 6486
 <211> 293
 <212> DNA
 <213> *Triticum aestivum*

 <223> Clone ID: LIB104-001-Q1-E2-G10

 <400> 6486

 ccgggtccac ggggtctaca gcaacggcgg tgttggtctc ccacacaagg agatcaagtc 60
 aagcatcctg aagcctgaga tcgtcatgtg agtcaccgc tcacaaatgc ttttaggaac 120
 gatgttgtgt ggcgtctttg ttctagtga tactgtaaac agcttaatat atgtggaact 180
 tgcgagactt gttaaactga tgagagtgt tgtgcaaat gaaaaagaag ttagtaaact 240
 caataacaag caagtaaagg tagagattgc ctcacacaaa taagacatca agg 293

<210> 6487
 <211> 375
 <212> DNA
 <213> *Triticum aestivum*

 <223> Clone ID: LIB104-001-Q1-E2-G11

 <400> 6487

 ccgggtccac gggacgtata gtattctgag agtcctaaac aacatggtaa tttgctttgg 60
 ttatgaattt aatcctaata tgatgggcat ccaacaggga tatacttgta actttcatat 120
 gaagtgcact gaatactaag ataagtttga tacatgataa ttgttttgag atatgaagat 180
 ggtcagtggc agagccaact caagtttata gccggggcat gatctacatg ctgccaaatt 240
 acttactttc tacccaaaca aacgtccact tcaccaatt ttcttacta aagcttcatg 300
 gacttgacc aaggagccc gggcatgtgc tccagcgtca cacgtgctgt caacggcact 360
 gaagatggtg atatt 375

<210> 6488
 <211> 383
 <212> DNA
 <213> *Triticum aestivum*

 <223> unsure at all n locations
 <223> Clone ID: LIB104-001-Q1-E2-G12

 <400> 6488

cgggtcgacc ggacttatat tatTTTgaga gtcctaaaca acatggtaat ttgctttggt 60
 tatgaattta gtcctaatat gatgggcac ccaagaggat ataataaaaa ctttcatatg 120
 aagtgcattg aataactaaga gaagtttgat acttgataat tgTTTTgaga tatgaagatg 180
 gtcagtggcg gagccaactc aagtttagag cgggggcaag atctaagtgc tgccaaatta 240
 cttagtttct acccaaaca acttccactt cacccaattt tctctactag agcttcatgg 300
 acttgcacca agggagcccg ggcaagtgcc ccagctcgcc aggtgctgtc aacgccactg 360
 aagatggtga tattaaagtt gtg 383

<210> 6489
 <211> 376
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-001-Q1-E2-G2
 <400> 6489

cgggtcgacc ggaggttcac aggagagaag cgacggagtt agaagttgta aatatgcatt 60
 gttgtatcgc gacctgaatg aaataaacga aataatgctc ttgttcaaaa aaaaaaaaaa 120
 aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 180
 aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa gggccccc 240
 aaagattaaa agttaatta cccttaaagg aaaattaaaa ccccttcaaa agtttcccaa 300
 aattcaaatt aaggggcttt ctttttaaaa attcttaagg ggaaaaacc ggggttaacc 360
 aaattaaacc cttttg 376

<210> 6490
 <211> 407
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-001-Q1-E2-G3
 <400> 6490

cggtcgtaca ttccgggtcc acgggggttc tgcattggaa tttttcattt atcattctga 60
 cgttataaca ctttggtttt ctttcatttc catatttggg ttcatatgat tcattgttta 120
 ttttaactttt ctttttggtt tttgtaagtt tgtaacagtt ttgtaatttt ttacacatgt 180

ttactttttt ctcagtatag aatgtaaatt tttaaagcac acatgaaata ttttgggtac 240
ccattgaaca tttttcagat acattatgta catgttttaa atacatgctt tgaacacttt 300
ttcaaagtca tattatcagt atatattttc taaactatgc aaatatttgt ctgcattgta 360
cataccattt cagaataatc acgaacatct actggaaata tatgatt 407

<210> 6491
<211> 397
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-001-Q1-E2-G8

<400> 6491

tccacggggc tgaagaaagt gagtgcgttg aacttacaaa agctgatata aactcacgca 60
tttagaagct agatatggtt cttggaactc gttccactgt tcagcataat agtgatactg 120
cctatagtgg tctacatttg ttttgcttac agttgaaggc cctaacttgt agaacgatca 180
acattgtgtc aagaagatgc aagtgtatgt acgcatgtgc aaggggaaca agaacggagt 240
tacaagtgat gatttcagga ctttgaatcc accataatgg gtgcatgaag ccttggacta 300
aatatacaag atgctacttc ataaatttcg ttccgaggct atttttaggtg ctgcgtcacc 360
ttagtattgg gccaggccca tgtaatttcg aaataca 397

<210> 6492
<211> 356
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-001-Q1-E2-G9

<400> 6492

cggtcgtact atccgggtcg actcctcagg agacggctct tcgccctggg gtcttgaggg 60
gcgcagcctg ccccgatgtc ttgaaagggt atgggactcg ggttggccta cccgtgggtc 120
attactccga caaataactaa gagaagtttg atacttgatg attgttttga gatatgagga 180
tggtaatatt agagtcgtgc tagttgagta gttgtgaatt tgagaaatgc ttgtgttgaa 240
gtttgcaagt cgcgtagcat gcacgtatgg taaacgttgt gtaacaaaaa tgaaacatga 300
gggtgttattt gattgtcctc cttatgagtg gcggtcgggg acgagcgtg gtcttt 356

<210> 6493
 <211> 439
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: LIB104-001-Q1-E2-H10

 <400> 6493

 gtcgaccggg agattcaatt aatgacgagc tgaggaaaaa ggagaataat cgtttgattt 60
 tggccaaaca tacctctctt ttgaagaaca tgaagagaaa actcattttg gcgaaaacaa 120
 aggttgcaaa agcagagatg gctttggcga aagttcagga atatctctct ccagcagagc 180
 ttccaacgga tctggaaact gttacagacg aggagcgttt cctattccgc agaattggcc 240
 tgaaaatgaa ggcctttttg atgcttggca ggcgggaagt ttttgatggt actgtgcaaa 300
 acatgcactt ccattggaag catcgagaat tgggtcaaat tgttgtgaag gggaagacct 360
 ttgaacaagt taaacatatt gctatctctc tagaagctga gagtggaggc gtgctcaatg 420
 cactcgacaa gacaacaaa 439

<210> 6494
 <211> 438
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: LIB104-001-Q1-E2-H11

 <400> 6494

 ggggtccacgg ggagattcac ttaatgacga gctgaggaaa aaggagaata atcgtttgat 60
 tttggccaaa catacctctc ttttgaagaa catgaagaga aaactcattt tggcgaaaac 120
 aaaggttgca aaagcagaga tggctttggc gaaagttcag gaatatctct ctccagcaga 180
 gcttccaacg gatctggaaa ctgttacaga cgaggagcgt ttcctattcc gcagaattgg 240
 cctgaaaatg aaggcctttt tgatgcttgg caagcgggaa gtttttgatg gtactgtgca 300
 aaacatgcac ttccattgga agcatcgaga attggtcaaa attggtgtga aggggaagac 360
 ctttgaacaa gttaaacata ttgctatccc tctagaagct gagagtggag gcgtgctcat 420
 tgcactcgac aagacaac 438

<210> 6495

<211> 430
 <212> DNA
 <213> Triticum aestivum
 <223> unsure at all n locations
 <223> Clone ID: LIB104-001-Q1-E2-H12
 <400> 6495

ggggtcgacgg gtcaagcata agtcgtagaa actgcaccat ccccggaag caggggactg 60
 attgggaaag tggatactac ccacttactc tccacttcag tgaggactac cctagcaaac 120
 ctcccaagtg caagttcccg catgggtttt tccacccaaa tgtctatcct tcaaggacgg 180
 tctgcctctc gattcttaat gaggatagtg gttggagacc tgccatcact gttaagcaga 240
 ttctagttgg aatacaggat ttgcttgatc aacctaatac agctgatcct gnccagactg 300
 atggttatca cctctttatc caggatccag cagagtacag gagacgcatt cggctgcagg 360
 ccaagcagta ccctgctctg gtttggggat ccaacgtaac agtctaaaat catgaattac 420
 cgcacctgaa 430

<210> 6496
 <211> 147
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-001-Q1-E2-H3
 <400> 6496

acggtcgtat ttcacgggtc gacgggattt ctgcagtaga aattgtcctt gatcatgacg 60
 acattattac acggtggttc acttgacatt tccattatta gtactatgat ttcaatgttt 120
 tgaaaactag gccttcagtt ctatgta 147

<210> 6497
 <211> 441
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-001-Q1-E2-H6
 <400> 6497

attcgcgcgt cgacggacct gcagcaatac atactggacc aattactaga gctcgtgcac 60
 gccaaactaaa ttaccaggta ctttcgtttc ttggtaatgg ttctaattgtt catgagaata 120

tgatgctgcc taaattggat acatttgttt tgcttacaaa tgaagggcct agcttggaga 180
 aggatgaaca ttggagcaag aacaagcatg gagatgatgg catgtgcaag gggaacaaga 240
 acggagttac aagtgatgat ttcaggactt tgaagccacc ataatgggtg catgaagcct 300
 tggacgaaat atacaagatg ccacttcata aatttcgttc cgaggctatt ttaggtgctg 360
 cgtcacctta gtattggggc aggcccatgt tatttcgaaa tacataagta taggctattt 420
 ttagagtccg tatgtgttgg g 441

<210> 6498
 <211> 444
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-001-Q1-E2-H8
 <400> 6498

cgggggacgg acggggcggc aactgttgca gccgcaatgt tcccagcatt tgcgagccag 60
 atacagcgaa atgccagagg tagctagcgc ataatagtgc actagtagta gtacacttgt 120
 atcagcttca gcaaacgatt ccctattccc aagaaattgc acgtatatgg agagttgagg 180
 caaagaacct gtttcagcag tctccctaaa cccaaaaaat tatctcctca agtagtggag 240
 agttgcaacc ctccccataa attttcaatg cttgccatgt cagtgcgccg cctccattga 300
 ccgccgcgcg actggaccac tgccgcctgc tggaacatca ccgctggcgc cggacttctg 360
 tgctgccgtt gctggacatc cgcgcgcccg ccagctgtca tcgcagcctt gacgaaaaga 420
 tgcaaatggg agagagggga aaaa 444

<210> 6499
 <211> 446
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-001-Q1-E2-H9
 <400> 6499

ggtccgaata tccgggtcga cggggcgcca actgttgcaag ccacaatgtt cccaccatth 60
 gctagccaga cacagctaaa tgccagagct agctagcgc taatagtgc ctagtagtag 120
 tacacttgta tcacttcag caaactactc cctattccca agaaattgca cgtataggga 180

gagttgaggc aaaaaacctg cttcagcagt ctccctaaac ccaaaaaatt atctcctcaa 240
 atagtggaga gttgcaaccc tccccataaa ttttcaatgc ttgccatgtc agtgcgccgc 300
 ctccattgac cgccgcgcca ctggaccact gccgcctgct ggaacaccac cgctgccgcc 360
 ggactttctgt gctggcgttg ctggacatcc gcgcgcgcgg caactgccac cgcagccttg 420
 acgaaaagat gcaaattgaga gagagg 446

<210> 6500
 <211> 402
 <212> DNA
 <213> Triticum aestivum

<223> unsure at all n locations
 <223> Clone ID: LIB104-002-Q1-E1-A3

<400> 6500
 gggctgccaa agaccaaagt gaggaggtcg ccaaggacca atcttcatag ttcttgttcc 60
 tccacggcgt tgtatccgct gttgtatctg atgctcaaag tagatgtcat gtggcggcgc 120
 cctcccgtgc tgcgaaaccg aaactgactt ggcctgagtt tcgtcgttgt tccatgctcc 180
 cggctatcct agatggtagg taatgtcgga acacaggggg atgggtggggc agtgttggtta 240
 ccatatgatc caaggggtac cttttctttc ttcatgctga accttggtact gtgtagcttc 300
 tatgctggtg tttcatgcta gtgattttta gcagtaaatg catgtaacct gactatttga 360
 atgatttgaa caaagttgtg cgaaaaaaaa aagaaggngg ag 402

<210> 6501
 <211> 201
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-002-Q1-E1-A5

<400> 6501
 aagtgagtcg tattagtgga caatcctgta taagtcttgt gccgccatgg cgttttatca 60
 cgcagttgtc gtcctatgtc aaggtatatg tcatgtggct gcggactccc gtgctgcgaa 120
 accgagactg acttggcctg aatttcgtcc ttgttccatg ctcccggcta tcttgcacgc 180
 taggtagtgt cagcacacac g 201

<210> 6502
 <211> 428
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-002-Q1-E1-B1

<400> 6502

cgacggggac ccataataat aaaactcgga tgacaacact ttctcaaaat aatcataaca 60
 tgatattaca aaatgggtatc tcgctagccc tttctaagac cgcaaaacat aaatgcagag 120
 cacctttaaata gatcaaggac tgactaaaca ttgtgattca tggtaaaaga gatccagtca 180
 agtcataccc aatataaacc aaaagtaatg aatcaaaatg acagtgttct ctccagcggg 240
 tgcttttaata aagaaggggtg atgactcaac ataaaagtaa atagataggc cttttgtaga 300
 gggaagcagg gattttaga ggtgccagag ctcgattttg aaatagagat agaataacat 360
 tttgagcggc atactttcgc tgtcaatgca acaactatga gatggctgta tcttcatac 420
 tacatgca 428

<210> 6503
 <211> 416
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-002-Q1-E1-B11

<400> 6503

cggggaattg tgacaaagtt gagggtttca tggggccctg acgtatatga tcctcctgtt 60
 acttctgact cacacacagt gaagccgcac cagagaagtt caaggaagag ccactacaaa 120
 tacaagcccc caaagggcag cagcagcagc agccgcacta gcagtggcag caaaaaggac 180
 aagaagcatt ctaccacag cagcagcagc agcagtaaaa gagataagaa accttcccac 240
 cgcagtagca atggtggcag cagcagaact gacactagt atcctcacca tcggaaggca 300
 tatggcagca gcattaccag cagaactgat actagtgttc ctgaatatca taagttatcg 360
 ccgtggcagc caccggctag tgccgcagtg gaagaagcca tgccccctgt acctgt 416

<210> 6504
 <211> 339
 <212> DNA

<213> *Triticum aestivum*

<223> Clone ID: LIB104-002-Q1-E1-B12

<400> 6504

accggctccta gattcgcggg ccgacagaag acgacaaaag cggatgaattg tgactaagtt 60

gactgtttca tgggccccctg acgtatatga tcctcctgtt acttctgact cacacacagt 120

gaagccgcac cagagagggtt caaggaagag ccactacaag tacaagcccc caaagggcat 180

cagcagcagc agccgcacta gcagtggcag caaagatgac aagaaacatt ctcaccacag 240

cagcagcagc agcagtaata gagataaaa accttcccat cgcaatagca atgggtggcag 300

cagcaacact gacactagtg atcctcacca tcggaatgc 339

<210> 6505

<211> 262

<212> DNA

<213> *Triticum aestivum*

<223> Clone ID: LIB104-002-Q1-E1-B3

<400> 6505

ctcccggttc gaacgggtcg ataactcttt ctttagcagc attgaaatcc tcttgaacct 60

ttagggaatg ccgctgcagt ctactaaaga aatcaaacag acccaactgc tcaactacaa 120

atttcgtagg agtaatctgt cgcacacatg cacctcatal cgagggtaaa tgattcaaaa 180

tgattgacga agctaaaatc taaagacaac ttaagattac tgaaaactgc ccaaagcaat 240

aatatgactg agttgttaga tg 262

<210> 6506

<211> 435

<212> DNA

<213> *Triticum aestivum*

<223> Clone ID: LIB104-002-Q1-E1-D1

<400> 6506

acgggttatc ttggagtatt accatctttt atgtcaagga tgttgtgagg actgctccac 60

ctcttaaaga attcttggtg ttgtgatact tctcaccctc accattcttt cttggtccgc 120

gtgttgattc taaccgggat accaacacgt gaaccatgct gcttggtatc tgtacttcta 180

gcaaccctat tgctttgaag ttaatggtca acatttcac cttagaccat tggttattga 240
atcaccattc taacattgat cctgctacct aagcccatat ttcgggtgca cttttcaacc 300
agtgattaat tgtggtatgt ttccctcgag tatacatcat tatatcattt gatctgttaa 360
atgttatctc cttgttcaca taattgtgga aatccacctt tttgtgaatc tcaatgaatt 420
gtcactgagc ccac 435

<210> 6507
<211> 184
<212> DNA
<213> Triticum aestivum
<223> Clone ID: LIB104-002-Q1-E1-D3
<400> 6507

cgggcacaaa caaaggtggt cacaaggaac cacaatagta ttccaagcac tatectttgg 60
cactatcatc ctgtacataa gcaaggcaac cccagtcacc aatctatacc tactttgtaa 120
ggggagaagg tttcttactg ctgaattttc atccgttaat ttcgtttgtc catcacggta 180
acaa 184

<210> 6508
<211> 403
<212> DNA
<213> Triticum aestivum
<223> Clone ID: LIB104-002-Q1-E1-E2
<400> 6508

attccaggtc gacgggtgct aatctcatgg taagtaatga cattacataa gaaagattgt 60
aagcagtaaa atttattgaa agttgacgaa catagcattg gtcaatgatg catttcatga 120
aagaaattaa taagggaaga caagattcac atgcaaatac accgtcttgg acttctttta 180
tgattgtgag ccccatthaag tatttttatgt caaattattg acgttggaaca aggaagacaa 240
cataatgatt tatgtttgtt catattcaca cagaagttac tagcaaaaaga gcccggtcgt 300
tgcaacggga gagaaaacat aacacacact cttaaccga caaccatcac ccaagactac 360
aatatgtcca tcccctttta tttttcgaga tatcatattt gtg 403

<210> 6509

<211> 324
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: LIB104-002-Q1-E1-E3

 <400> 6509

 acgggtccgg cgcgatggc gctcttcagc gaccccgga tgtacgtcca ccccatcaac 60
 gtggaggcgc tggcggagtc gtagtgtgga ggaccgccag cgatctggcc gtgtgtgctt 120
 aggacagttt ttatcgaacc aaaaacttaa tttccaaata gccgcctcaa agcatatctt 180
 ccaacaaatt ctgagttttt tttacgttgc atttctatcc taaaactttc cttttgttat 240
 ttctcccatc ctgttgcgta tgtaaacttc acttccgcgt acatttttaa aacatttcaa 300
 ttgtgaatgc acgaaatcaa tttc 324

<210> 6510
 <211> 393
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: LIB104-002-Q1-E1-E4

 <400> 6510

 ttccaggctc acggggctgg tggaggctct atggttatca tgttgcgaaa atccagtttt 60
 tccctacaac aaaggaatat attttattta actacaatgt ttgttgaaaa acatttagaa 120
 tggtaacccc atctcaatcc caattaataa tcaataaccc cacaatttaa ttaagtaaag 180
 tgatgagatc aacatagtaa ttcaagcacc agacactcaa gatgtccata accgggggaca 240
 cggctaccat cattagttaa tacactctgc agagggttgc acacttttcc ccacaagact 300
 cgatctcttg cattgtattt cagcactgc atggtgtttg agaaatggat gatctagaca 360
 cagtctttcc gaagaggtcc ccttaaccga tag 393

<210> 6511
 <211> 245
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: LIB104-002-Q1-E1-F6

 <400> 6511

gggtccacgg ggcactcgca tgccacgatg ctgactgtga tgaccattaa gctgatactc 60
gctcttctcg gcgtacgcat cacactagcg tgacttgtga agatatcaag tgcagcatgt 120
aacaggggca gttagcctgt tctggaccaa tgagtgtatga gtaatctgct gggatattgt 180
tcaggcggtc atgtgtatga ctcaaaataa tgagtgtgtt tcctttccac acttagcgat 240
ataaa 245

<210> 6512
<211> 461
<212> DNA
<213> Triticum aestivum

<223> unsure at all n locations
<223> Clone ID: LIB104-002-Q1-E1-G1

<400> 6512

cgctgctgn gtacggccca gaattccgag tcgacgggaa cgctactcag aatatggccc 60
tcaagctaag gaacaccgac actggcgagc tcatcatgca cctggagtgg gttaacctcc 120
ccccaggcat gtcgcggtga tttgatttga tttgcagagg gaggccagct attgtctgcc 180
ttttgtgatc gtaatgttgc ttcctctata tatgagctat gaaaataatt aagcgatgcc 240
tatctcattc ttacataac acccaccgta atgatttgtg gatctcacca ggatggtgcg 300
tatataatat gagcaacgtc gtggtgagat ccgcagatca tcacagtggg tgctacgtaa 360
ggcatgtgat agacttatgc tgctgggggt aatgcttgc ttcagttttg gttctgcata 420
tgttgtatgg ctatttttat acaaaaaagt atattttgtc c 461

<210> 6513
<211> 152
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-002-Q1-E1-H6

<400> 6513

tcccgggtct acggaggaag aagatggtcg gcgtctccct ggcgcatgac tccgctgaat 60
aacattccat tgcgataata tttgagctgc ctgccatcag tgtgcaagcc atccagaaga 120
tcctgtcggt ctcgctggct ctgcaattgt tc 152

<210> 6514
<211> 272
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-002-Q1-E1-H8

<400> 6514

cgggctcgacc gaaagcgaca acggacgata aacaggggtgt cgtactctcc tcccagagact 60
ccactgatgc ttgctgatct ccacaacctt acaggggtct acaaaacaga ctttcccaca 120
atgccaaacca atgcgcgacc aaggaaggct tcatctgtgc tgaatgcttc ttacaagggc 180
ttcctctaga tggtcctcca taacactgag acggatgttc agacctagca tctggatggg 240
tagtcattct ttgtagtcgg gatgggacca tg 272

<210> 6515
<211> 403
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-002-Q1-E2-A1

<400> 6515

gtcgacgggg agccataata ataaaactcg gatgacaaca ctttctcaaa ataatacataa 60
catgatatta caaaatggta tctcgctagc ctttcttaag accgcaaac ataaatgcag 120
agcaccttta aagatcaagg actgactaaa cattgtgatt catggtaaaa gagatccagt 180
caagtcatac ccaatataaa ccaaaagtaa tgaatcaaaa tgacagtgtt ctctccagcg 240
ggtgctttta ataagaaggg tgatgactca acataaaagt aaatagatag gccctttgta 300
gaggggaagca gggatttgta gaggtgccag agctcgattt tgggatagag atagaataac 360
attttgagcg gcatactttc gctgtcaatg cgacaactat gag 403

<210> 6516
<211> 417
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-002-Q1-E2-A2

<400> 6516

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tcagcgaaaa tagccgaacg aagatgtagt gcagcggatg aaggttaaac atagcaaaga 120
 cgatcatcaaa ccgcaggacg atcgtacccc cgatgtcgcc atccacaaag cccttgccct 180
 ctggcacctt ggccacgaaa accgggtatg ccacatcctt ctctctgaga cgccgcttct 240
 ccaaagaaag aacactgtcg tgcagactcc gcatagcacc ggttgcagca ttgagcatat 300
 ttggtggtag catcgcccta cccgccacat gcaccctcct cgagatatcc tgcggtgaag 360
 gtggcccgtc ctgagcacgg atcgtactcc gtgcgggctg gctcgcaccc ttcgtag 417

<210> 6517

<211> 399

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-002-Q1-E2-A3

<400> 6517

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 atgtcatgtg gcggcgccct cccgtgctgc gaaaccgaaa ctgacttggc ctgagtttcg 180
 tcgttgttcc atgctcccgg ctatcctaga tggtaggtaa tgtcggaaca caggggggatg 240
 gtggggcagt gttgttacca tatgatccaa ggggtacctt ttctttcttc atgctgaacc 300
 ttgtactgtg tagcttctat gctgggtgtt catgctagtg attttttagca gtaaattgcat 360
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<210> 6518

<211> 113

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-002-Q1-E2-A4

<400> 6518

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<210> 6519

<211> 89

<212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-002-Q1-E2-A5

<400> 6519

gctgatggtg ctgttgttgg tggatgatgct gttgctgttg ctgatggtac tgttgttggt 60
 ggtaatgctg ttgcagttgc tgttgctgc 89

<210> 6520
 <211> 386
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-002-Q1-E2-A7

<400> 6520

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 agttcgaatc ctctccagt acgcctcggg cctcctttta aagccaaagg ggtcgccaca 180
 gtggcacaca ggaggtggaa agtttgtact gtatacaagt ctatcgcttg gcaccgtagg 240
 aaaaaacaca tttaatgcgc tgccgacgtg cctcttact ttactgggga cgacaaggaa 300
 gctcgtccca tccgccgccg ctctgtctcg ctctgacgcg cgtccaggct gactaggcat 360
 gcagcgccat gctggttggt tgctga 386

<210> 6521
 <211> 402
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-002-Q1-E2-B1

<400> 6521

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 agcaccttta aagatcaagg actgactaaa cattgtgatt catggtaaaa gagatccagt 180
 caagtcatac ccaatataaa ccaaaagtaa tgaatcaaaa tgacagtgtt ctctccagcg 240
 ggtgctttta ataagaaggg tgatgactca acataaaaagt aaatagatag gccctttgta 300

gaggggaagca gggatttgta gaggtgccag agctcgattt tgaaatagag atagaataac 360
 attttgagcg gcatactttc gctgtcaatg gaacaactat ga 402

<210> 6522
 <211> 348
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-002-Q1-E2-B11
 <400> 6522

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 acttctgact cacacacagt gacaccgcag cagagaagtt caatgaagaa ccactacaaa 120
 tactagcccc catatggcag catcagcagc aaccgcacta tcagtggcat cagaaaggac 180
 aagaagcatt ctcaccatag cagcatcagc agcagtaaaa gagataagaa agcttcccat 240
 cgcagtagca atggtggcag cagcagaact gacactagtg atcctcaaca tcggaaggca 300
 tatggcagca gcattaccag cagaactgat actaatgttc ctgaatat 348

<210> 6523
 <211> 357
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-002-Q1-E2-B12
 <400> 6523

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 acttctgact cacacacagt gacaccgcac cagagaagtt caaggaagag ccactacaag 120
 tacaagcccc catatggcag cagcagcagc agccgcacta gcagtggcat cagaaaggac 180
 aagaagcatt ctcaccacag cagcatcagc agcagtaaaa gagataagaa accttcccat 240
 cgcagtagca atggtggcag cagcagaact gacactagtg atcctcacca tcggaaggca 300
 tatggcagca gcattaccag cagaactgat actagtgttc ctgaatatca taagtta 357

<210> 6524
 <211> 411
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-002-Q1-E2-B3

<400> 6524

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acattgaaat cctcttgaac ctttagggaa tgccgctgca gtctactaaa gaaatcaaac 120
agacccaact gctcaactac aaatttctta ggattaatct gtcgcacaca tgcacctcat 180
accgagggtta aataattcaa atgattgac gaagctaaaa tctaaagaca acttaagatt 240
actgaaaact gcccaaaaca ataatatgac tgaattgtta gatggaacca aaaaggaaat 300
tgtatttatc aagtttatta atctgcatga actaagacag tctccgatat tcaagaatgt 360
agtggctctt gatttttaat cagagataac aaatgaccag atgcgtacaa t 411

<210> 6525

<211> 443

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-002-Q1-E2-B4

<400> 6525

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tcttgaacct ttaaggaatg ccgctgcagt ctactaaaga aatcaaacag acccaactgc 120
tcaactacaa atttcttagg attaactctgt cgcacacatg cacctcatac cgagggttaa 180
taattcaaaa tgattgacga agctaaaatc taaagacaac ttaagattac tgaaaactgc 240
ccaaaacaat aatatgactg aattgttaga tggaacccaa aaggaaattg tatttatcaa 300
gtttattaat ctgcatgaac taagacagtc tccgatattc aagaatgtag tggctcttga 360
tttttaatca gagataacaa atgaccagat gcgtacaata gagggaagga gaagatactc 420
acgtgtgttag cgcgcttgaa ttt 443

<210> 6526

<211> 188

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-002-Q1-E2-B7

<400> 6526

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 tgctgttgct gatgggtgctg ttgttggtgg tgatgctggt gctgttgctg ttgcagcggc 120
 ggcagcttct caaaacgcag aaactgcaac accaaaaaca ccagaaaatg gagacagaga 180
 atacccaa 188

<210> 6527
 <211> 172
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-002-Q1-E2-B8
 <400> 6527

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 tgttgctggt gctgatagtc ctgttggtgc tggcgatcct gttgctatta ctgtcgtctc 120
 tgcaccgact tatcaattca gtgatcagtt atctcaacta acatgaccat tt 172

<210> 6528
 <211> 412
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-002-Q1-E2-C1
 <400> 6528

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 cattttattt tgtttttctt tttgtttgaa taaataccaa gatctttaa tcttaaattg 120
 tagagagtct tcacatagtt gcataattat tcaactactc attgatcttc acttatatct 180
 tttggagtag tttgtcattt gctcttgctg ttcacttata tctttttaga gcacggcggt 240
 ggttttattt tgaagaaatt gttgaaatct catgcttcac ttatattatt ttagagagtct 300
 ttagaacagc atggtaattt gcttgggtta taaaattagt cctactatga tgggcattca 360
 agatgggtat aataaaaact ttcattgtaga gtgcattgaa tactatgaaa ag 412

<210> 6529
 <211> 161
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-002-Q1-E2-C12

<400> 6529

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ggggcgcccc ccaatgtctt cgaaacggtg ttggccccct ggtcttcac cttatccaag 120
aattttcctt aatttttcca aagggtttcca acgaatttca a 161

<210> 6530

<211> 75

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-002-Q1-E2-C2

<400> 6530

ggtagcaatg ctgcagctgc tgctgatggt gctgttggtg gtggatgatgc agttgctggt 60
gctgatcgtg ctggt 75

<210> 6531

<211> 391

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-002-Q1-E2-C3

<400> 6531

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ctttagggaa tgccgctgca gtctactaaa gaaatcaaac agaccact gctcaactac 120
aaatttctta ggattaatct gtcgcacaca tgcacctcat accgaggta aataattcaa 180
aatgattgac gaagctaaaa tctaaagaca acttaagatt actgaaaact gcccaaaaca 240
ataatatgac tgaattgtta gatggaacca aaaaggaaat tgtatttatc aagtttatta 300
atctgcatga actaagacag tctccgatat tcaagaatgt agtggctctt gatttttaac 360
cagagataac aaatgaccag atgcgtacaa t 391

<210> 6532

<211> 358

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-002-Q1-E2-C4

<400> 6532

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ggatggcaat gaggtgttct ttgcgcatcaa gagatctacc cagctgaaga agctgatgaa 120
tgcctactgc gaccgccagt ctgtggatat gaaagctatt gcattcctgt ttgacggtcg 180
caggctccgt gccgagcaga cccctgatga gcttgagatg gaagatggcg acgagatoga 240
tgccatgctc caccagaccg gagggcgccct cctccacgc gcctagaaga agccgttgag 300
agtctgctt gttgtcggtc tacaagactc tgattcatca ttagagagca catgaacg 358

<210> 6533

<211> 420

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-002-Q1-E2-D1

<400> 6533

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ccacctctta aagaattctt ggtattgtga tacttctcac cctcaccatt ctttcttggt 120
ccgcgtgttg attctaaccg ggataccaac acgtgaacca tgctgcttgg attctgtact 180
tctagcaacc ctattgcttt gaagttaatg gtcaacattt catccttaga ccattgggta 240
ttgaatcacc attctaacat tgatcctgct acctaagccc atatttcggg tgcaccttcc 300
aaccagtgat taattgtgta tgtttccctc gagtatacat cattatatca tttgatctgt 360
taaagtgtat ctcttgttcc acataattgt ggaaatccac ctttttgtaa atctcaatga 420

<210> 6534

<211> 417

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-002-Q1-E2-D3

<400> 6534

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ctatcctttg gcactatcat cctgtacata agcaaggcaa cccagtcctc caatctatac 120

ctactttgta aggggagaag gtttcttact gctgaatddd catccgttaa tttcgtttgt 180
ccatcacggt aaaaaaaaaa aaaaaaaaaa aaaaaataaa aaaaataaat aaacataaaa 240
aaaaaatcaa aaaacaaaaa aaaaaatcaa cccccataaa aaaaaaaaaa aataaaaaaa 300
aaaaggggag ccccaaaagg ttcaagcctt acttcccctt aaatgcaatt tcaaaccctt 360
ccaaaagggc ccccaaattt aattccaggg cgtcctttt aaaaagtcct taccggg 417

<210> 6535
<211> 360
<212> DNA
<213> Triticum aestivum
<223> Clone ID: LIB104-002-Q1-E2-E2
<400> 6535

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aagcagtaaa atttattgaa agttgacaac cataccattg gccaggagc cattccagaa 120
agaaatttat aagggaagac cagaatcaca tgccaatata cgtccttga cctccttta 180
gaatgtgaac cccaataagt aatttaagtc aaattaatga cgtttgacaa cgaagacaac 240
ataatgatat aagtttgctt aaaatcacac acaaagttac tagcacaaag agaccctgtc 300
gttgcaacgg gagagaaaac atatcacaca ctcttaaacc cgaaaacatc acccagcact 360

<210> 6536
<211> 442
<212> DNA
<213> Triticum aestivum
<223> Clone ID: LIB104-002-Q1-E2-E4
<400> 6536

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ttccctacaa caaaggaata tattttattd aactacaatg tttgttgaaa aacatttaga 120
atggtaacc catctcaatc ccaattaata atcaataacc ccacaaatta attaagtaaa 180
gtgatgagat caacatagta attcaagcac cagacactca agatgtccat aaccggggac 240
acggctacca tcattagttt atacactctg cagaggtttg cacacttttc cccacaagac 300
tcgatctcct gcattgtatt tcacgcactg catggtgttt gagaaatgga tgatctagac 360

acagtctttc cgaagaggtc cccttaaccg atagataggc cggtacacct acaatcccct 420
acatctgcta acccatcatg cg 442

<210> 6537
<211> 450
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-002-Q1-E2-E6

<400> 6537

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tgagacactt tccaagaaat aaagtcaaat taccttatga atctatcatg cgggctactt 120
ctgaatcaag tgccaaagat ggcactccgt tagattaacc ttccgcttta ggccaaccta 180
ggggcggttaa aataatagcc ctagttggga ggcaacccaa ttttcttcat gtcctttgtt 240
ttgggtccctg tttagtgtta aattttgttt ccactttcta tttagatgtg tttttatctt 300
ttaattagtg tttgtgccaa gtagaaccta taggataaac tatgatgata gtttatttga 360
ttctgctgaa aaacataaac aattcaataa atcacagaga cgtacttttg tattgattct 420
ttttgctgct gatcaataaa caaattgtcc 450

<210> 6538
<211> 105
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-002-Q1-E2-E7

<400> 6538

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agttacctgt acaatctatc atgcgggcta cctctgagtc aagtg 105

<210> 6539
<211> 425
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-002-Q1-E2-F2

<400> 6539

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 acaattagtg tgggttataa atttggctct aatgtgatag gtattcaagt gggatataat 180
 acaaaactttc atgtagatca ctgaaaatga taagtttgat tccttgcaat agtttgcgat 240
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 tgtaaggtt cgtgattccc gaagcatgca cgtatggctc ctcgttatgc tatgaagttg 360
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 ttttt 425

<210> 6540
 <211> 431
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-002-Q1-E2-F3
 <400> 6540

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 cactgcagag agagaatgtt tttcctgaga gacctgatca accggaatgc atatactaca 180
 taaagactgg agattgtaaa tttggtgcag tttgcaaatt ccatcatccc cgtgtgcgtt 240
 cacagcctcc ccagactgt atcttgagcc caatgggtct tccattacgc ccaggggaag 300
 agctctgcaa gttctattct cgctatggca tctgcaagtt cggcgtaaag tgcaagttcg 360
 accacccgat gggggctccg atgggggtct acgcgtacgg ctactccgcc tgggggtcgc 420
 ccaacgcgcc c 431

<210> 6541
 <211> 430
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-002-Q1-E2-F4
 <400> 6541

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ctcgccaaac acctcggcca ggaaaagccg aggacaatgg cagccttaac aagcctcatg 120
 acccgctttt gcgcggggcga ggatagttgg ctagcccata gcggcaccag tgaccagga 180
 acatccgaag tcagagatgg caacggaaat ccgtgacgca ataaaaa^acaa gcgtcgaaac 240
 aatgaaaaca gccagataa cacgacagtc agtgccggat tcaggggctc tcgaccgggt 300
 caacggaaga agccatttaa aggcagtaga gatggaccgt ccagcctgaa taagattcta 360
 gacaagttat gtcagattca tggcaccccc gaaaaacctg caaatcacac ccatagttag 420
 tgctggggtt 430

<210> 6542
 <211> 423
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-002-Q1-E2-G8
 <400> 6542

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 ggacggcgac cacaaggaga agaaggacaa gaagaagaag aaggacaaga agcacggcga 180
 gggccacaag gacgacgacg gccacggcag cagcagcagc gacagcgaca gcgactgagc 240
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 agaagtgtgg catacatata tgttgcaggg tttggagcgt gtggtagcat atgtatgtaa 360
 tgcgtagcat gtctcatgga tcttgtgatg taaaataatt acccggtgc actgcacggc 420
 acg 423

<210> 6543
 <211> 412
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-002-Q1-E2-H2
 <400> 6543

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ttgctgtaaa aaacagaaac tttagcgctc acgagaatct atgccatttt tatttggaag 180
 gtgatattta gttattatt cttgaagatg attaacagat aaattactca cttccagaaa 240
 tttattttat aatttttggg gttccagaac gtgcgtagc tacagattac tacagactgt 300
 tctgtttttg acagattatg tttttcttgt gttgtttgct tagattgatt aatctatggc 360
 tagtaaaaga gttttataac catagagaaa tttggataca gtaggtttta ca 412

<210> 6544
 <211> 408
 <212> DNA
 <213> Triticum aestivum
 <223> unsure at all n locations
 <223> Clone ID: LIB104-002-Q1-E2-H4

<400> 6544
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 aacaaacaat atggtaaag cacaagcata aacatggcat gatgcacaaa caagtatgat 120
 gcatgtccgg tttaatgagg catggcatgg caaagtgcaa caaacaacac taaaattaa 180
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 gctctctttt aggtacgcaa taatattaaa tgttgtaaa catggcaaga ggtgaagcaa 300
 gagaaaacta cctatctagg caagttttaa tgaggtcgga acaacanaca acaatttccg 360
 gaaaatcctc atatgcaatt tatgaattag ctactgttct gcccaaaa 408

<210> 6545
 <211> 342
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-002-Q1-E2-H8

<400> 6545
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 catctgtgct gaatgcttct tacaagggct tctcagagat ggtcttccag aacaatgaaa 180
 cggatgttca gacctaccat ctggatgggt attcattctt tgtagtcggg atggactatg 240

gtgagtggac gccaaacagt acgggttcat acaacaagtg ggatgccatc tctcgcagta 300
ctacacaggt cttcccaaga ggggtggactg ccgttctggt ct 342

<210> 6546
<211> 73
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-003-Q1-E1-A1

<400> 6546

tgttttgtca gcgtgtcaaa ccttaaatac aatctgttaa tcgtggatca gatttggtac 60
cacattgggt tca 73

<210> 6547
<211> 336
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-003-Q1-E1-A11

<400> 6547

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gttttcagtt gaagaaccga ttgaggccgt ggcaaaaaga gaagagctgg agcaccttgc 120
catgatttgc agatctgaag ctgatgcaat ggggaggatc actgctggaa ttctccgtct 180
gcttaaactt gataagtctc ttgggcaggg aaccatcgaa cagctgagga acctaggaag 240
tggaagcctg gacaacattt tctcgcctag caggttcagc aggcacaaca gttttggcat 300
cgtaagcacc cctaggaccc ccaggagccc aatggt 336

<210> 6548
<211> 227
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-003-Q1-E1-A12

<400> 6548

gtcgacgggg aagaagatga agaggaagaa gaagaagaag aagaggaaga agaagaagaa 60
gaagaagaag aagaagaaga agaagaagaa gaataagaag aagatgaaga tgaagaagat 120

gaagaagaag aagatgaaga agaagaagaa gaagattaag atgatgtaga agaagttgta 180
taagaagaat gaagaagaag aagatgaatt tgattatgat gatgttg 227

<210> 6549
<211> 337
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-003-Q1-E1-A3

<400> 6549

ggtaaagaaa aagatcaatg atgcaggaag gaggaccaag gccgagatga tgaagactag 60
gataaggatc accttgagga agaagaggac gagtaagagg acgaagtcga tgacctcgag 120
ctgaacttga catctacgac gactccgttg agacagctca gccgtgcgaga cttgacgagg 180
ttgaagcaag ccataaagag tgcgatcggt aggatcatct acgggagaaa gccgtgaggac 240
cagtcaaggc agagtagaag aagaatcggc tgatgaagac gaagagtctt caatagaaga 300
ggccgagtcg ctataccgga tgcaagaaga tcaggtg 337

<210> 6550
<211> 413
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-003-Q1-E1-A4

<400> 6550

aaagaaaagg aaaacccggt gggattcctt ttaacaaatt cccaataac aagcaaaagg 60
ccctccgacc tttcccaaaa aaccttgga atccggtggc ataaaaggac caaggaaagc 120
ccaaaggcaa tgaaccatca aaataaactt tccccgaaca aaatttcaat caagcttcaa 180
aaggacgaaa cataacttac aatttggaag caccaattgg atcgtgatgt tgaaaccctt 240
aaagcaaaat ctaacatcgg tagcaatcgt acgtttttga atcgcagtc gatcgaatgc 300
agtgcacctg aagaattatt cattaaagat cagtcactga ctaatgaaaa tgtggacaag 360
attgtcgggt acgctgtcag ttatcatctt aagcacaata aagtcgaaac etc 413

<210> 6551
<211> 400
<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-003-Q1-E1-A7

<400> 6551

gggccgacgg ggcaggatat acatcgatga tgcaggatgg ggtcccgagg ccgattcgat 60

cgagtatggg taccgggtcc ccttgggcag catacacgtc ttcacgcgca agatcgggtga 120

gcctaggcct gagctggaca tctacaccga ccccgctcag acggctcagc gtgcgagatc 180

taccaggtt aaaccggcca tgaagcgtgc cttcgttgga gtcattctac gaggagagcg 240

tgaggacgaa tcagagcacg gtaacgagac cgctcgtctat tccggcgacg agtcttcgac 300

cggagagacc gagtcgctat accggatgca agacgatcag gtgaggggtt gttccgatgg 360

cgacagtatt ccggaccccc caaggccaga tcgaccgggt 400

<210> 6552

<211> 297

<212> DNA

<213> Triticum aestivum

<223> unsure at all n locations

<223> Clone ID: LIB104-003-Q1-E1-A9

<400> 6552

cagctgtgat atacatcgtt gtaggggtang tagctcctgg agtcatttga ttccagtgtt 60

gtaggaaatg gcgcgatgga tgggttctag gagtttttct tttggacggg ggatgtacga 120

aactgacttg cgcgctctc tccgctcgtg ggactcgggg aaacagtgtt ccccttcgaa 180

ctgttgcct gtaggttttg gactagaatt tggaagattt atatagagaa aatgcactgg 240

cggacttga acttgaaaag aaaaatataa caaatctaa aaaaaaaaaac gcggccg 297

<210> 6553

<211> 429

<212> DNA

<213> Triticum aestivum

<223> unsure at all n locations

<223> Clone ID: LIB104-003-Q1-E1-B4

<400> 6553

cgggtcgacc ggagcgccat agtatctgtg acatttacag gcctgccccg aagaagggaa 60

aggcatgttc aaccaataat ataacaaggg aatcaattt tttccgggta aaactaaaac 120
aataatgcc aagaaggtaa aagttaaggg aagggtttta tccgaaaaaa ttgcaaattt 180
tccccaatat aactgcaacc aaaagctgct gccgttggtt ggtgttaaaa tcaaagttac 240
tgccagaatg gaattgtatc gcctggaaat caatcttttt tgtttctcca aaaaaaaaaan 300
aanaaaaaaa aaaaaaaaaa aaaaaaaaaat aaaaaaaaaa aaaataaaaa acaaattaaa 360
tttatataaa ataaattaat ataaaaaata tcctaaaatt aaaattaaaa aaaaaaaaaa 420
aagggggccc 429

<210> 6554
<211> 176
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-003-Q1-E1-B9

<400> 6554

atggattttg aaaaccatga aatttctgaa acaaagaaaa ttcacctaa gactcatcac 60
gatgtggact ttgaagtaat tctatataat tctgagagcg taaccattt tggttgcaaa 120
aactgggaag catTTtgcaa gatgtatggt tttgatgaag gtatgcttat caccat 176

<210> 6555
<211> 276
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-003-Q1-E1-C1

<400> 6555

gggtcggccg gttggtagtt ttgatcacag tgcttcactt atatcttttg agcgtgataa 60
tttttgctct agtgcttcat ttagatcttt tagagcatgg tgggtggattt gttttaaaga 120
aactattgat ctctcatgct tcacttagat tgTTTTgaga gtcattaata gcatggtaat 180
ttgcttaa ataatatac ttggtattca agatatgtga aactttcttt tgagtgcgtt 240
gaatactaag ataagtttga tgcctgaaaa ttgttt 276

<210> 6556
<211> 321
<212> DNA

cgcaacgtgt cgatgaecgc aaccactcc aagattcgta cccgcgccga ccgcgacggc 180
gtctccatct tcaacgccac caaagtgttg gtggaccacc tgtccatggg taattgcat 240
gacggcatga tcgacgtggg ggccatgtcc acggccgtca ccgtctccaa caccacctg 300
gcccaccaca acgacgtgat gctcttcggc gccaccgatg ggaagganga ngacaagggtg 360
atg 363

<210> 6559
<211> 363
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-003-Q1-E1-D6

<400> 6559

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aattagctaa gtgaacggcc gatgaataaa cactatcact gccatgataa agaggattac 120
cataggctgg ggccaagtgg ctacatgggtg gcccggccta cgccgggataa ggctgagcaa 180
gagatgctgg atgcacgggt cagtccagtt acattgagct ggctccccag gtgcaggact 240
tggtttctatg tgcattggggg agcgttggcc ccaacgacag ccaaggtttt gaacaacgca 300
agccttaaag gagccacact aaaattactt gttgcaatag aataggctca aacaagggtt 360
ttc 363

<210> 6560
<211> 435
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-003-Q1-E1-E3

<400> 6560

gaatgataga agggtagag tgcgtattgt caagggactc aacattagtc ataaagaact 60
catatacgta ttgcaatagt ctaaaagcca ttgctcagaa tgtattacgc gcatgctcct 120
agtgggatag attggttaga aaaggccatc gctcgtcccc gaccaccact cataatgaag 180
acaatcaata ttacaattgt gtcaccaatt catcacaag cggttcacca tacgtgcatg 240
ctacgggact cacatacctc aacacaagta tttctactaa tccacaatca ccactagca 300

taactcta atcaccacct ttatatcgca aaactattgc acggaatcat acatatcata 360
 ctcagcgatc tacaatttga tgtacgattt tatgactaat catgtgattg accaattcct 420
 gtcattctct catat 435

<210> 6561
 <211> 427
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-003-Q1-E1-E9
 <400> 6561

ttccgggtcg acgggggtgtg ccgacggcgg gcgcccctgg tccaatggtg ccgcccggcg 60
 catctcctgt cccatgccgc tgacgggtcc tctcccact ttgctcaaaa tcgctaggga 120
 gcacatcgcc gcggtccggc ccttttccat tgcacaacga catatttttt ttcactgcac 180
 cgcccagcca tctcatcttc cctcaagatc ttgtatgtcg tgttgcgaga tcaagtaacg 240
 tctccccacc aaaggaattg agtatggagg aggcgaggac gtgttcatct cccgctccgg 300
 cgagattcag ttctgctctt ggggtttccac gacatcatga agttcctttg tgtagacaag 360
 cacctcagca ctctagatcg ataatcctaa tacttcaaag ccaaggagta gaaaaactga 420
 aacgacg 427

<210> 6562
 <211> 87
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-003-Q1-E1-F3
 <400> 6562

accctaaagt agagtcgtag tacgctctct cactcagcag cttcatccca gctgcgaatc 60
 ttgtgcacat tggatattca ctcatat 87

<210> 6563
 <211> 456
 <212> DNA
 <213> Triticum aestivum
 <223> unsure at all n locations

<223> Clone ID: LIB104-003-Q1-E1-F4

<400> 6563

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cggtcggtg gtgtctgtgc gcgtgtgccg ggacgtcaac accaggatgt ccctaggcta 120
cggtacgtc aacttcagca tccctgccga tgctgcaagg gcattggaaa tgctgaactt 180
cactcctgtt aatgggaagc ctataaggat aatgtattct aaccgtgacc ccagctcacg 240
taaaagtggg gctgcaaata tatttatcaa gaatcttgac agtcaatag ataacanagc 300
gctctatgac acattttctg cctttggaaa cattctttca tgcanagtgt ctacagaaat 360
gtctggagaa tccaagggtta tggttttgtt cagtatgagc aggaccaatc aacacagaat 420
gcaatcaatg agctcaatgg gatgcttttg aatgac 456

<210> 6564

<211> 282

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-003-Q1-E1-G11

<400> 6564

gggtcgacgg gaagaacgag cgccggggcg gcaccaaacc cagggggcgag aagggttca 60
tcgagggatg cctcgccgca ctgtgctgct gctggatctg cgagatgtgc tgcgactaac 120
cgccgggccg gcgaggccgc tgctggctgg cacaagacct cggtgctata gtaccacga 180
ggaggaggag cgtatgcgta tacagagaga gaattgttct taatttcagt gcccgttgtt 240
ttaggttcta tacagtatat actcctaagt tgatgcatgc at 282

<210> 6565

<211> 311

<212> DNA

<213> Triticum aestivum

<223> unsure at all n locations

<223> Clone ID: LIB104-003-Q1-E1-G3

<400> 6565

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tcctcagtgg gcagtcgtan gtgacacctt tcccgctcngc tgcccgttcg acgaatgcaa 120

cggtcaacttc aagtacttca aggagaacct gactaccaca acccgaggtt caacaccaag 180
 ttccgggtct actccgangn gtgcgggctg gacaacgtgc tcatgtcatg gggccatgac 240
 gactacatgt gcctggttgc caaggagaac aagaacaccc ttccttccgc anggctgttc 300
 atcatcagat a 311

<210> 6566
 <211> 104
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-003-Q1-E1-G4
 <400> 6566

cgggtcgacg gggaacgtaa tcaccatctt cgaagaggaa ggcagacggc cggacgccat 60
 catgatcctg acggtgaagc cagacaacat ctgcagcttc atct 104

<210> 6567
 <211> 403
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-003-Q1-E1-H12
 <400> 6567

cgggccgacg ggtcatggca aactcccaag gcaccccgagg gtaatcttaa aggacaacca 60
 aaagcctaag cttggggatg ccccggaagg catcccctct ttcgtcttcg tctatcggtg 120
 actttacttg aggctatatt tttatgcacc acatgatatg tgttttgctt ggagcgtctt 180
 gtatgatttg agtctttgct tttagtttac cacaatcatc cttgccgtac acaccttttg 240
 ggagagacac acatgaatcg gaatttatta gaatgctcta tgtgcttcac ttatatattt 300
 tgagctagat aattttgctc tagtgcttca cctatatatt tttagagcac ggtgggtggtt 360
 ttattttata gaaattattg atatctcatg cttcacttat att 403

<210> 6568
 <211> 418
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-003-Q1-E1-H6

<400> 6568

gacgggaggt tcaagggaga gaagcgacgg agttagaagt tgtaaataatg cattgttgta 60
 tcgcgacctg aatgaaataa acgaaataat gctcttggtc aatcgtcaaa aaaaaaaaaa 120
 aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 180
 aaaaaaaaaa aaaaataaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 240
 aaaaaaaaaa aaaaagttag cccacaaaaa aattaaattt aaaataaagt gaaaagaata 300
 ttaaaaacca ctaaaagggy ccactaaat taaattaaaa gggctttatt aaaaaactgc 360
 aaaaagggaa aaaccttggy ggaaacaaaa taaaaccctt ataaaaaaaaa cccctttt 418

<210> 6569

<211> 302

<212> DNA

<213> Triticum aestivum

<223> unsure at all n locations

<223> Clone ID: LIB104-004-Q1-E1-A1

<400> 6569

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 caaagccatt atgagtatat atagattatt gtataagggt acccaataga tgaagaacta 120
 attcatcagc tcaacctaac ctgggtacaa agctaattca tcagctcacc agtgatcatg 180
 cgtgttgctg aatatctcat ctatgtgcgt gttgtgtaat gagattaatg tgggaataca 240
 tcatgggcgg agtcaggatt cgaaaaanaa aannnannna aaaaaaaaaa aagcgggcgc 300
 tc 302

<210> 6570

<211> 424

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-004-Q1-E1-A10

<400> 6570

gggtcgacgc gaatcgtcga tgtcactgga tccggatttg gccaaagttcc tggcacatgg 60
 cacttcaggt gcacgatcct tccgcaggag gagaagatcc cggcaatcat ctcccgttc 120

acggtgttcc atgagacgtt catggcagag taccgtgact aaactgggtgt aacatgtgtg 180
ggattacatg caagcctcat ggattttccc taggcgtttt tgcccgcgtt gacagcagta 240
tcctgtagat gagacaaaat aaagcaaata catggccttg gtgtgtgata ctatatcaga 300
ttaccagtct gatgcctttg atggtaaatt ggcaactgag aatTTTTatt tcaaaaaaaa 360
aaaaaaacaa aaaaaaaaaa aaaaaaagaa aaaaaaaaaa aaaaaaaaaa aaaaaaagcg 420
gccg 424

<210> 6571
<211> 302
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-004-Q1-E1-A11

<400> 6571
aaacgcagga aaaagtgagc gagtgggaga catcaggaag cgacggagtc tcagctgtgt 60
gtacatgttg tagggtagga gtcctgggt cttttgattc cagtgttgta ggaaatggcg 120
cgatggatgg gttctaggag tttttctttt ggacggggga tgtacgaaac tgacttgcg 180
gcgtctctcc gtcgtggga ctcggggaaa cagtgttccc cttcgaactg ttgtcctgta 240
ggttttggac tagaatttg aagatttata tagagaaaat gcactggcgg tacttgaact 300
tg 302

<210> 6572
<211> 363
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-004-Q1-E1-A12

<400> 6572
ttctgggctc tccccctct cttcgggtaa ccccagggtt tggcaaccgg gtaaccggtt 60
aaaatccccg ccccttggt tcgcggtcct ctggttggtt gtaatctcca ggcaaaccgtt 120
cggtttgggt tgtgctgcc cttataacgt tgatgtccat cgaggccaat ttccggtggt 180
ttgtcctcct cggttcggt gacgttgga ccgtcttctg aacctccctg ctttggttta 240
agtcccggt aatctatttt gctttgactt ctgacctga ttgggtccag gctaaacca 300

tcatgctctg attgccaata tgttttatgg tcttgggcta accattttta acccaaatgc 360
cga 363

<210> 6573
<211> 403
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-004-Q1-E1-A3

<400> 6573

accggaagcc gaagccgtcc cacggcgacg acgaccggcc cagctacggc cgcaagatga 60
acgacgacga cgacgacgac gacaggcggt cgcggtacaa aaagcgcgac gacgacgact 120
atgatgagag gaagccgcgg tacaagaagc acgacgacga cgatgatgga cacgatagga 180
ggccgcggta caagaaacgt gacgacgacg acgatgatga cgatgacaga aagccacgtt 240
acaagaagcg ctacgacgac gacgacgatg atgatacgaa gccacgttac atgaagcacg 300
atgattatga tgacgacgac gatgatagga agcagcgctg cggaacaac cgccgccgcc 360
acgatgacga tgactgatta tgacatgagt ttaagctgac gct 403

<210> 6574
<211> 412
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-004-Q1-E1-A5

<400> 6574

cgggtcgact gcacacagca ccgtcatacc atttgacgac aacataaact tccacaaggt 60
tatcgcggtt ggaattgcaa ttggagcggg tatgcatacg gttgttcacc tgacctgcga 120
cttccaaggg ctggtctcct gcccaagtga caagttccag gagaagctgg ggcccttctt 180
caactatggt caaccaacat ggggaactct gttcgcgagc actccagggt ggactggtat 240
cctcctggtc ctcataatgt cattctcctt tacactggcg acaacctcct tcaggaggag 300
cgtcgtgaag ctgccatcgc cactgcacca cctggctggc ttcaattcct tctggtatgc 360
ccaccacctg ctggtgtttg catatatcct tctggtgatg cactoctact ac 412

<210> 6575

<211> 335
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: LIB104-004-Q1-E1-A9

 <400> 6575

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 ttgggaaaga gctcctgggt catttgattc cagtgttgta ggaaatggcg cgatggatgg 120
 gttctaggag tttttctttt ggacggggga tgtacgaaac tgacttgcg gcgtctctcc 180
 gctcgtggga ctcggggaaa cattgttccc cttcgaactg ttgtcctgta ggttttggac 240
 tagaatttgg aagatttata tagagaaaat gcactggcgg tacttgaact tgaaaagaaa 300
 aaatcaacaa aacataaaaa aaaaaacgcg gccgc 335

<210> 6576
 <211> 328
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: LIB104-004-Q1-E1-B1

 <400> 6576

 ggaagatcaa gctcaaggcg gaaggaaacc cccgccgcgt cggtagacga gataatgccg 60
 cggaaggcat tggcgcattc atggtttaga tatgaaagtt ttggacaccg accggaactc 120
 agtcgagagc ttatatatga aaactagtga gagagagaag actatattta tgcaattaga 180
 agagaactat atacattggt tttcccctaa gctcaataag gtctgtgtcc tttgtggact 240
 gcgtttcttc tttgtagaga cagaacatat aatactgagg attgcagtca aatggaaatt 300
 aaattcaggt ttgatacttt aatatacc 328

<210> 6577
 <211> 265
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: LIB104-004-Q1-E1-B2

 <400> 6577

 gggccaacgg gaaggacacc ttgtggcccc ggtgaacaag ttaaaccgac gttaccaaca 60

agccaactca acttcggggt cctgtaatgc aagcatgcat gcacaaataa atccttcaag 120
 ttcaagggcc aagatttga ccaataattc aactccttgg ttccaaataa cccaatggat 180
 aattaaatcc aatacaacca aaatccaata acctttaaat tgccccatta taccctaaat 240
 gatgttttcc acgagcacat atgat 265

<210> 6578
 <211> 334
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-004-Q1-E1-B3
 <400> 6578

gggccggccc gagcagttac gaaagcgaat gaagctgagg ttgcacggac aagcttatgg 60
 aggtgtcagt atgcacgcac acgtccctga tttggagcac gcctctggcc tggtaggatt 120
 ctcgctctgc ctgcacctca agggcggttcg tctatctgtg tcatgctcgg gacgatgcac 180
 taatgcaggg tgtggttctt cagatcttct tttgtctttt cttgggtatgt atatctctga 240
 atcttgtgag ccgtgatttt catgctgccc attgtgtcat gtataatgat tcttcttatt 300
 atttttgaat ggcataatta ttcttattga ggcg 334

<210> 6579
 <211> 449
 <212> DNA
 <213> Triticum aestivum
 <223> unsure at all n locations
 <223> Clone ID: LIB104-004-Q1-E1-B4
 <400> 6579

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 aaaattaacc ttggctttta agttaaccac aaccatcctt gcttaataca ccttttggga 120
 aaagcctatt tgattagaat ttcaagaata cccaaggtgc ttcacttaaa ccttttgagc 180
 ttgatagttt ttgctctagt gntcaccta aatcttttag agcacgggtg tgactttatt 240
 ttgaagaaat tactagtctc tcatgcttca cttatatatt tttgagagtc ttttagaata 300
 gcatgggtatt ttctatgggt ataaaattgg tcctagaaag gtaggcaccc aagttgggta 360
 taataaaaac tatcatanga agtgaattgg atgctatgat caatttgata attgataatt 420

gtttggagat atggaggtan tgatataaa

449

<210> 6580
<211> 430
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-004-Q1-E1-B9

<400> 6580

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atgaacgagc ccagatgcat caccgatccg tccggttaaca ctctgcagcg ctggatccag 120
gagatggctg ggtacgtgaa gtcgatcgac aggaggcatc tgctgaccgt cggcaccgag 180
gggttctacg gcccgacgag cccaccggag aagctcagcg tgaatccggg gcactggttc 240
aacaactacg gctcgcactt catccgcaac tccaagatct ctgacatcga cttcgctctc 300
gtccaccttt acccggacac ctggctgctg caccggaatt tggaagagaa gctcaagttc 360
gtgacgcagt gggtagctc ccacttcgag gacggcgaca cggagctcgg cggcaagccc 420
gtggtgctca 430

<210> 6581
<211> 386
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-004-Q1-E1-C10

<400> 6581

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acaaaggtag aatgcaatcc gctcccccaa gaaaggccgt taatttaaca atccgctggc 120
aacggaaagc caacctcccg taaattcctc gccgtccttg ctggccactt tcgacagcct 180
tgacatcttg gacgcctgca atggcctcct gctctgccgc tgctggaagg ctgctgatcc 240
cctggaattg gattatgttg tttgcaatcc caccactgag aaaatggtgt ccttcctctg 300
catcgactgg tccagcaaag tgagcgctgc tcgcctcgga tttgaccggg ccgttacttc 360
ccacttccat gtattcgagt tcatag 386

<210> 6582
 <211> 430
 <212> DNA
 <213> Triticum aestivum

<223> unsure at all n locations
 <223> Clone ID: LIB104-004-Q1-E1-C12

<400> 6582

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gggcccaaccg gaagttgaag gtaccggtgg gtggcctccc aatcaatcaa ggaaacaatt   60
tggaatggct aacgggggggt aatggttaac cggaatcaa taaggaattg gtgacaaaaa  120
aaccattaaa ggcattagaa ttacctaagg agcaaaacca aaccttgtgg aggatcccat  180
caaccctatt ctgcacatt gcttcgatg cgacgcttaa gccattgggc cactttgctg  240
aagcacccaa tgctcatagt tatccgcta tatgtgccg ggagtatgtg gaacaagagc  300
tctcgcgcat caatctgaaa gggaagggtt cactttangt gcacacagac cgccgattaa  360
tctggtgact tggtgactcg ttggtctgcc ttctatggtc agaatgcgaa ttgcgataat  420
ccaagctgat                                     430
  
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<210> 6583
 <211> 434
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-004-Q1-E1-C2

<400> 6583

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tggtcaact aaaaatttta aaacaacggc gggggtttaa tttgccaaaa ccaatggtcc  120
cccaagcctc aactaaaata atttgagagt cttttaaaac aacaatggaa ttgctaaggt  180
ttaaaaattg ggcccagaat gatgggcatc caagtttgggt ataataaaaa ctatcataga  240
aagtgaattg gatgctatga tcaatttgat gcttgataac tgttttgaga tataaaagtg  300
gtcatgttag agtcatgcta gttgggtaat tatgaatttg agaaataccc gtgttggaagt  360
tggcaagtcc catagcatgc acgtatggta aaagttgtgt aataaattta ttgcatgggg  420
tgctcttttg attg                                     434
  
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<210> 6584

<211> 442
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-004-Q1-E1-C9

<400> 6584

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cctcctgtct gtactcgag caccggccac gtggaggccc atctgtcccg gttagtataa 120
gaaccgggac gaaaggccta ggcattggta acgacccttt agtcccgggt ccccaaccgg 180
gacagatggg ccttatgaac cgggacaaat gacccttttt ctactagtgt taaaaagcca 240
gtaggtcaca ctgaattttt gatgtgatat ggccacagct atcatgttgt aatatcttct 300
aacctgaaca cgatttatac aacttgaatt taaaatgtta cattaacgga tacaaaaatt 360
agctgatatt ccctgtaatt ttctcttttc tttccaaaaa ggttgatatt ttgcaagcac 420
ttctgcttat tattaactgg ta 442

<210> 6585
<211> 358
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-004-Q1-E1-D11

<400> 6585

ccccggttct ccgactgggc aacctccccg tggctctggg ggtccccaac ccgcaacaat 60
tccaacccca caaaaccgga cccggcaacc ccgaacctgc cttagggtt aaaaggccaa 120
ccaccgatg aaggagaact ttttcaagga aaccttaaaa ttgaaaaaaaa tggactttta 180
gggtggatca aaaaggtagg aacctccggc aaaattgcta ctgcaatttg gcagctttgg 240
ggtttgcggc ttacttacac tgctgttgt gtctctgact ttttctgctc tgagtttaac 300
acaaaaata tgggtgctc tagtgctcac tggactcgca gctagcgtcc gttgccat 358

<210> 6586
<211> 446
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-004-Q1-E1-D2

<400> 6586

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gcacggactt caagcacggc gcgaacatgg cgatcacggg cgcgacggcc atggacgcgc 120
ccttcttccg cggcctcggc ctgtcggaca agatctggaa caacggggccc atcagcttcc 180
aatccagtg gttccagcag atcaccgcca ccgtgtgcgg gaacgactgc atgcggtacc 240
tgcgggactc gctggtggtg ttcggcgagt tcggcgggaa cgactacaac gcgatgctgt 300
tcggcaacta caaccggac caagcgagca ggtaccaatg tttcaacggt tcgaacggag 360
tgccgctagc taaatgaaat cctgtccgcg ctatagcctg atttttcacc ggcatatagc 420
cgatttgat gagtagtacc gctact 446

<210> 6587

<211> 425

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-004-Q1-E1-D4

<400> 6587

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agatcaaggg accacaaccg tgaccgctac aaaaaccgga cccgtgacag aaagaggccc 120
tattaccagg gaggtagagg gtcggactat ataggcgggt cctataacag ccggagggat 180
tctgaaaggg caaggcccac agacaggaac ggtggtgatt tttcaagaac aggagaccg 240
gggaggatga ggagcaggtc tcggtctccg ggcattcatg gttattaatc atttcaagtt 300
atatgagact cgtgaggtaa acattatgct cctttgttta ttcattcagt cgcaatgtct 360
gggtgttgtc atgattaaat ttaaacctta ctctgctcta gcagctcttt gttgaaacca 420
tacct 425

<210> 6588

<211> 238

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-004-Q1-E1-D6

<400> 6588

ccggccgacg gggaaaacaa tgaccgtccg tacgacgacg aaggatagca ctacagcggc 60
caccgggatg accatgagga gagatccata gatcagcacc gtcagtgtg taatcaccgg 120
atgcctgtca cgctgatgtc cgattcacct tgaggtacag ggtcgcactc tectggctgt 180
tcctatcact gcctgatgga ttctcatggg gcaacgctca aagacacgac cggttgtg 238

<210> 6589
<211> 308
<212> DNA
<213> Triticum aestivum
<223> Clone ID: LIB104-004-Q1-E1-D9
<400> 6589

ttgagaaacg aatgaccgag acatagtttt tcagaagcgc tagcacctta cgatcgggta 60
gacagttaca cctactttcc cctacatctg ctagtctacc actgtaagag ttcacatgac 120
ttaatcaact atgctagatc ccatagtagc ttgcggctgc acacggaagt ttctagcatg 180
aataatttca tgatcccttt gagcctgggt ggcggtccat aaagaaaacg accaatcgct 240
ggaataccca ggtgcctcaa tccaccaga tgtgtgttaa agttgccacc ttaaataaac 300
tattaaat 308

<210> 6590
<211> 319
<212> DNA
<213> Triticum aestivum
<223> unsure at all n locations
<223> Clone ID: LIB104-004-Q1-E1-E10
<400> 6590

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ctcagaagag aagtccagct gcgggcaaac ccaagatttc caagattaag aaaccaaag 120
atgaatatga tgatacaaag gaggaaaaga aaataaagaa ggaagttggt atcaagaaag 180
atgaaaagaa ggctgctggg gtgaagaaag anggggctgc tggggtgaag aaggagagga 240
aggtgtatga attgccaggg cagaaacatg atcctcctcc tgaaagggat ccattgagga 300
tattttatga atcgctcta 319

<210> 6591
 <211> 314
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-004-Q1-E1-E11

<400> 6591

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ccgggtcgac aagaagaatt ctgcaatgct tgtgaggata acgagtgtta gaatgcgaga 60
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cttactctta ttattcgctt tgctatatgg gatggtaaata ctgagtgact tacctatagt 180
ggagagacga cgatcaaaac cttgtttgaa ccttaaaaag gtacaggtat tttttttccc 240
ttgtacacgg cagttgttgc caaccgtagg ttaaacgggtg aggttcaacc caaacccctt 300
cctgcaggag aaac 314
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<210> 6592
 <211> 427
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-004-Q1-E1-E12

<400> 6592

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aattcccccg gaaaatgggg gcttttctcc aatccttggg gccttggggtt aaccggaaaa 120
acccggaatg gattgccggc acaattggcg ggaatttttg cagtagtccc tttcgtgctc 180
aagggcaaaa gaatgcgtcc gttctttttt ttgagagcga atgcgtcctt tctggtgacg 240
ctgggaactg ggaagtcgtc aatccagatt cttaacggcc ttattctgtc atgctggaag 300
tcggcaatcc aaaccacat gttcctcacc atatttgtca tgtccatagt tgtactatat 360
acagttcatc catgtgaata acacaatcga ttatcctaaa aaaaaaaaaa gaagaaagga 420
gaaaacg 427
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<210> 6593
 <211> 440
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-004-Q1-E1-E2

<400> 6593

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ggccaaatcc caaggtcggc ccggttaggc ccccaggttc cccaagacca caggaggaag 120

ggtgggtggct ggtggtcggc gacagctcca ccaagcagct gctggctatc aagaggggtca 180

ccctccagaa gatggcccggt gtgaagctcg agttcaccgc cgccgcggag ccagggacga 240

aggactacat gatctacctg atgtcggact cgtacctcgg ctgcgaccag gagtacgagt 300

tcaccatcga catcaaggaa gctggaggcg actaatttca aacacccaaa actctttttt 360

atactggggtt tttgctctta ttagacaaat attatgtgac ctggaactta tcatcttttt 420

gtctgtaatg taacacctga 440

<210> 6594

<211> 422

<212> DNA

<213> *Triticum aestivum*

<223> Clone ID: LIB104-004-Q1-E1-E9

<400> 6594

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catcctaata aagctaata accatctctg gaacttcaca acaccaacaa atggaagcaa 120

gcaggacgaa acctacactg agcaacctgg agtctttcca tgttggcaag caccacaatt 180

tccgtgtacc gacctgccag cgaagccccg gcacagcaag tatccctggc acagcaagca 240

ccgattagca ttcaggcatg agtaaccaag tgtgtccgag cccaggagcc caaatggccc 300

tgcgcaccga gagcccatga gcccaaattg cctgcgcac cgagagcagc ccggactgta 360

tgttcacagc cagaaactat tatactggaa ctcaattgcc aacaaacctc ccaagaacaa 420

aa 422

<210> 6595

<211> 205

<212> DNA

<213> *Triticum aestivum*

<223> Clone ID: LIB104-004-Q1-E1-F1

<400> 6595

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 tgataaaciaa gccaatggtc cccctagccc aacaaaaagc tctgctttgt ttaagtcggg 120
 ccagacataa atgggcctcc ccaaagaagt tacgaacaga ccatagtgtg agaaatccta 180
 taaagtttct ttattttaacc tgcg 205

<210> 6596
 <211> 426
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-004-Q1-E1-F11
 <400> 6596

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 ggaggagaca tgtgtcggag tcccgggtgac cagcaagcga agagccgatg ggacagcgtc 120
 gtctgtgcgc cgcgaccacc tagcggggag gagctagatc ggggaagggtg ccgtcgccag 180
 gtggtcgagg aatcgggcag caaagtgccg aaaaaaacgt ggagctggag aggccttgg 240
 ggaggaggaa acttacattc taatgcatga ggcgccgga gggagggtgct gagcggttat 300
 gatcggcggt aggatcctgc gccatgtgcg atggtggta ggacccttcc tttccttttt 360
 tgtatgacag ctggcaaaag gtgcgggaca ccgctgccat atttaggtgt gtgctccgga 420
 acgcta 426

<210> 6597
 <211> 446
 <212> DNA
 <213> Triticum aestivum
 <223> unsure at all n locations
 <223> Clone ID: LIB104-004-Q1-E1-F4
 <400> 6597

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 gggcatattt ccatcaggga atcgtgcttc aaccagtctg gggattccaa gaggaaagt 120
 aaccgacgc actaccgga gccgaggttc tacaccaagg tgtttaagga atgccactcc 180
 tatgaccaag aggggaattc ctttgagctt tctctggtaa cttccaagt cattggagct 240

tatgtgaaaa gcaagaagaa ccagaaccag atatgttggc tgtgggagaa ggtcaagtgc 300
acagaagaca aaggctttca gagattcctg gacaatgtgc agtacaaatc cactggaatc 360
ttgcgttatg agcgcgtgtt tggggaaggt tatgttagca ccggtggatt cgagaccaca 420
nangagtttg tggacaagct ggacct 446

<210> 6598

<211> 408

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-004-Q1-E1-F6

<400> 6598

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aggctcgcgt ctctagcaca gtctagccta ggaccagcac agtaccgtcg ttgagcgttt 120
attcaacttt gcatttctga attgattatt gctgaccatt ttgctacca tattataagc 180
cttcccagct ccacatacat ctacgtcgtg cggttgactc tccctagtaa tcgctctatc 240
caagctttga gagtttttga ctacaacgat tgccgatcac cgcttgcgtgc tgggtaagaa 300
ctggtgaagaa tttgagattt gcttgacgga tttgtgacac ccaccaccac ctcttggtag 360
tagtctgtag gattatattc ttgtgtgtct ctattgctgc taaccatg 408

<210> 6599

<211> 416

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-004-Q1-E1-F9

<400> 6599

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ccaacatcaa gggcaacaac ctgcctccg ccgcaatcct cggcaacaac ggcaccttct 120
gggccc aaag cgccgatttc ccgtcgttca agccggcgga aatggccaac atcatgaagg 180
acttcgacga gccggggacc ctgccccga ccgggctgct actcgagac gccaagtaca 240
tggtcatcca aagtgaacct ggcgccgtca tccgcggcaa gaacggcgcg ggaggcatca 300
ccctgaagaa gaccgggcag gcgctggtgg tccgcatcta cgacgagccc atgacccccg 360

ggcagtgcaa cctgggtggtg gagaggctgg gcgactacct ggtagagcag ggcattg 416

<210> 6600
 <211> 362
 <212> DNA
 <213> Triticum aestivum
 <223> unsure at all n locations
 <223> Clone ID: LIB104-004-Q1-E1-G10
 <400> 6600

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 ctactgctaa atgacctacc attaccgcct ttcacaaaga acccactact gctagggtgct 120
 agcatgtaaa attagacatc anaaatacat tcatcatcaa tgatcctttt gtgtagaatc 180
 tgaattgtca atatgaatcc tctactgggtt aagaaccggg gaggattcct attgcgggca 240
 cagatcctac acatagagtt caatgaacac tactangaaa aggccctgcta gtggcgccacc 300
 tgttttggct actaatggcg cactacangt gcgccactag catcacgcca ttagaatttt 360
 ta 362

<210> 6601
 <211> 198
 <212> DNA
 <213> Triticum aestivum
 <223> unsure at all n locations
 <223> Clone ID: LIB104-004-Q1-E1-G11
 <400> 6601

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 tgatccttgg tttgaagact tcaangaatc tctcaaaacg atgactttcg aaccagaatc 180
 atcatcttct gcatcatg 198

<210> 6602
 <211> 452
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-004-Q1-E1-G2

<400> 6602

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ccaggacttc ctattttggt aggattttta gagttacata agtttgcggt agtttagagat 120
tgctacagac tattttgttt ttgacatatt ctgtttttcg tgtgttggtt gcttattttg 180
atgcatctat ggctagtaaa atagtttata aaccatagag aagttggaat aaagtacctt 240
taacacaaat ataaataaag aatgagttca ttacagtacc ttatgtggtg gttttgtttt 300
ctttcactaa cggagcttat aagatttcct gttgagtttt gtgctgtgaa gttttcatat 360
tttgggtaaa gctttgatgg actatggaat aaggagtgcc aagagcctaa gcttgggggtt 420
gctcaatgca cccaagatat tcatcaatag ca 452

<210> 6603

<211> 347

<212> DNA

<213> Triticum aestivum

<223> unsure at all n locations

<223> Clone ID: LIB104-004-Q1-E1-G3

<400> 6603

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tctcacattg acgaggataa tcaatgagct atggagatgt ccatcaattg atgtcaacat 120
gaggagtang gattgccatg caacggatgc actagagcta taaatatatg aatgctcaac 180
aaaagaaact agtgggtgtg catccaactt gcttgctcac gaagacctag ggaattttga 240
ngaagcccat tgtacgaata tacaagccaa gttctataat gaaaaattcc cactagtata 300
tgaaagtgac aacataaaaag actttctata tgaagaacat ggtgcta 347

<210> 6604

<211> 286

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-004-Q1-E1-G4

<400> 6604

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ctaataccca ttgcacgtg ttgcagtaac gtagtttttt tcgacgcaga gtaacgtact 120

tcttgatggt ctttttttct gatcgacaag cttttctatg gtagctatat gttcatcttg 180
 atctgtgctt cttttacttt acatcattta ttagctttgt gatctccttt tgtcattgtt 240
 gagatattgt ttagtgctaa aaacaaaagg aaatttgagg aagacc 286

<210> 6605
 <211> 309
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-004-Q1-E1-G8
 <400> 6605

caagtgatt ggtttgcggt ctttttcaca tttactggtt tttccagctc tgctgccgcc 60
 tgccacactt tgtaatgcaa ttttttttgt cacatcggtc atataatcag gattctagcc 120
 aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaca 180
 aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa agaaaaaaaa aaaaaatagg cggtagaaaa 240
 agattaaaac taaactttca cgtgcatcaa aggtcaaagc ccatacaaaa tggtagccata 300
 ctttcattt 309

<210> 6606
 <211> 380
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-004-Q1-E1-H10
 <400> 6606

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 gaaccgac aacatctgca gttcatctc ggagaccaac cccgggcacg tgcggtcgtg 120
 ggagaccaag gacagccagc tgacgatggt ggcggacgac ctgaagccgc gggcgggtgt 180
 gacgtgcccg gagaagaaga tgatccagca ggtggtgttc gccagctacg ggaacccgct 240
 ggggatctgc ggcaactaca cgtttggcaa ctgccacag cccaaggcca aggagattgt 300
 ggataaggcg tgcgtgggga agaggagctg cgtgctggcc gtgtcgacg aggtgtacgg 360
 cggggacctc aactgcccg 380

<210> 6607
 <211> 383
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-004-Q1-E1-H12

<400> 6607

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 caagtggaca ataaccggga aatggggaca agttttcaaa atccaggaca attttttaac 120
 ccctggacgg aattggaatc cgggaaaatt ttcaaattcg gaaacaaatt taaggcaatt 180
 caaacatttt ccaaaaacaa ggacaattac tgaatttaag aacaatttaa accgattggt 240
 aacacttttt aaacaatgtc acaagaataa catatttatt aaatgaaaaa aaatagaata 300
 gatgaacatt tttttagaag tttctggaac aaaattttta attctcaaac atttttttat 360
 ttaatacaaa ttttttgaaa tgc 383

<210> 6608
 <211> 386
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-004-Q1-E1-H4

<400> 6608

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 gaggaggctg gcattttggc atggggccacg tcagaatttt gcacgtacct ggacaccagg 120
 ggcttattac caagggcggt atccggcccc tcttcataaa gaccgaatac cttagggagt 180
 gttcggcgtc tcgagttagg gcttatatgc atcagctctg aatcatgtct tcggtcaaat 240
 gttggggttg cccgactcct gtgttttgct gccttacggt ccgctctatc ggctaagacg 300
 acaccagaag aactactgcg attgtgcccc ggctcgtcca ggcgagcacc ttagtagaga 360
 aagccgaaaa ctgactatca tgatat 386

<210> 6609
 <211> 264
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-005-Q1-E1-A11

<400> 6609

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ctcacacaca tgggcttttt gcaacatcta gcaagatgcc catgcgttgc acggcacatc 120
aagatgcatt tgtctgaata atttatcttg taggggaaat agtctacttg tggcatgtcc 180
atctttcaaa agttggctta ggggtgtgagg tagcttctta gccatttgcc ttcccagcag 240
ttgtaccgca tgaatgtcga ttgg 264

<210> 6610

<211> 330

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-005-Q1-E1-A2

<400> 6610

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gttccgcagt tcgtgtgttg cttatattat atgttgctat tatattacca ttattaagtg 120
agggaggaat tgattagtgc cagtgtttga ttttgttctg tttgtcatgg tacgaggaaa 180
gatcaccaag tagataaggt ctctagtagc agtttggtg tacctaataca gtacccttat 240
ttcattccga ctagtaagta aaaacttgtt tttccaaaaa aaaaaaaaaa aaaaaaaga 300
aaaaaaaaaa agaaaaaaaa aaaaaaagaa 330

<210> 6611

<211> 358

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-005-Q1-E1-A3

<400> 6611

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cgggagcaga ggggcttcgg ttaagaaata aataaagagg atcgggtgctc caccgtgctg 120
cggccgtgtg gtgttgggtg tgattgtttg cttgttgacg tggctgcatt cactggctgg 180
gcaccaggat ccgtaagata agataaatgt gtacgtacgt gctgtattcc tgaacttgta 240
ctgtgacgag cgagactcgc tttgtaacgt gctattctgt ttctacgtgg ctttcttcta 300

aaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa cggccgct 358

<210> 6612
<211> 388
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-005-Q1-E1-A4

<400> 6612

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caagatcgat ctatggatcg cgtgggcgcc ccatgatagc cgacgacaac cgtcgcgccg 120
gacacagtaa gtctggccgg gccgaacaaa atagacacat ctcttttgag ctctgtcatg 180
atatcgccca gtacagaggc gccgcacacc cactatgctt cacagatgaa gtaatggatc 240
atcaaatccc caaagggttt aaaccctga atattgaatc ttacgatggc acaacagacc 300
ccgcggtttg gatcgaagac tatctctcc acatccaaat ggcccgcggt gacaatcttc 360
acgccatcga atatctccca ctcaaact 388

<210> 6613
<211> 263
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-005-Q1-E1-A5

<400> 6613

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ttagcattgt tgaaccatat ctattcctca tccttgagta gtgtgcaagc atactgtggc 180
agtttggtc cagttttgaa agtcattttt gtttgtctga aacatcttgg aaagaacagt 240
gtaagaatga agtatttctg ttt 263

<210> 6614
<211> 430
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-005-Q1-E1-B1

<400> 6614

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ggcttcatcg acttcagcga gttcatctcc ttctgcaacg ccaaccccg gctcatgaag 120
gacgtcgcca aggtcttctg aatcagttca tttcacctca gccgtccgat ccaggagccg 180
atccatctac gtacggcttc gtatatcaat ttcattgcaac tacctactcc ggtcccgatc 240
cagcctcagc ttcacctgag gccggcccta attttgtttg atcatttttt ttgctaccag 300
tagtaactag tgatgatcac tgttccatca tttatttatt ttatatcatc acatgtttct 360
tttctttctc tacctttttg tcgatcgctg gctccagctc gatccaacga ttcattgctgc 420
taattggttg 430

<210> 6615

<211> 406

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-005-Q1-E1-B10

<400> 6615

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gtggtgtctg gtcctctggg tccaacatct gggtgcgaca accaggtaga agggataggg 120
ggaaaagagg gagaaagcaa ccgtgagtac tcatccaaag tactcgcaag caaggagcta 180
cactacatat gcatgcattg gtatcaactg gaataaagct atcatatgtg gactgaactg 240
cagaatgccg gaataagaga gggatagcta gtcctttcga agactacgct tctggcagcc 300
tccgtcttgc agcatgtaga agagagtaga ctgaagtcct ccaagtatca tcacgtagca 360
taatcctatc cgatgatcct ccctcgctg cctgtgaga gagcga 406

<210> 6616

<211> 424

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-005-Q1-E1-B7

<400> 6616

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aactcaaggc ggcgactgcc atcgggtcaag tgtgggtcat cgaggctgct cgctgtgttt 120
 cgtcgcagct gcaggccgcg agatcagggtc gggaaggcgc cgcgcatga cgagtgagcc 180
 aattttcgga ttggaccata acaacgtgtt tcgggtctccg acgtctagaa gtagtggttaa 240
 agttttgaat ttgtatggca agaaccactt acgtaggtag ctgacacgca cgacagtgtg 300
 ttacactct tacttatgta aaagatatga attatacatg agttgcctcc acaatgagga 360
 attgcgatag tagatatggc aattatgtga tagaaaaaaa accaaaccgg ggaaccggcg 420
 ccac 424

<210> 6617
 <211> 412
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-005-Q1-E1-B9

<400> 6617

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 ggcgagagtg ccattgtctt cttacacttg ccggtggagc tcgatggtgc gtccttgatg 180
 gtagcgcagc actccgaaga ggtgcgcttg ccggagtggg catcagaact ctttccggac 240
 ttggtattct tcttcgcccc gggagcttca acggcaagtg acttgcgatc tgttgagct 300
 gctgcttctc ggtagatctt gtcggcgcag ataagagcat ctttcttgtc gccagggaca 360
 gaggtgacac ttatcgggcc tggcatcttc agtatgttgt atgcatagtg ag 412

<210> 6618
 <211> 398
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-005-Q1-E1-C11

<400> 6618

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 cagtggagga aaacgcaacg gcggcaccgt cacaaccaat ggcaccaccg caaccaatgg 180

cggaaaacgc aacggcagca ccaccgcaac caatggcgga aagcgcaact gtcgttgtgg 240
 tgggtgccacc accaccgcca gacggcacca cgacattcct ctgcctcatc ctgccttct 300
 tcateccctcc cctcggcggtt ttcctcaagt acaaagtga gattgaattc tggatctgcc 360
 tcatecctaac attcttggcc tacgcgccgg gcatcatc 398

<210> 6619
 <211> 176
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-005-Q1-E1-C5

<400> 6619

ggaagaatag gaggaggaag aagacgatga agaagaagac gaagaagaag aagaacgaag 60
 aagaagaaga ggaagaggaa gaatcagcag cagtatacga acacgaagac gaccaagagg 120
 aagcagagga acacgacgaa gaagaccacg aagaacaaga cgaagccctc cacgaa 176

<210> 6620
 <211> 390
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-005-Q1-E1-C9

<400> 6620

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 cacgtgggat agaggtccca cttgccaaat gtgggaagtc tcagcttctt cacggccgtc 120
 acgccatgac tggattttta agccgcgtgg cgcaggtaca tgcacaatcg tgcgccggtg 180
 aacaccgatg aaccatggtc acggcaaggc taaccacgca tccattaata gcatccatcg 240
 ctccctccca attaccaatg cagtcatttg aatggcctca cgacttcac ccttcctaga 300
 aaagccctat ggcgaggtgt ccccatcacc gaagtcagtg ctggagcccg acgacccgat 360
 tgatgccgtg tcacggatat ccgctatcga 390

<210> 6621
 <211> 432
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-005-Q1-E1-D1

<400> 6621

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tacagtcttt tgggtggcgt acattttaga gacaaaagag ttataatgac tgaagggtcc 120
tttgacagtg atagcagcag aggatcatca cccacctat cacctcacct atctagagga 180
gatactgata caaacaggtt gtccaagata aagctcgggt cgaacatgcc aacaaaagct 240
ggattgacaa ttcgaaagag tgattgtgaa ccacagctta ttggagaacc taccggggag 300
ttgtacgatg ttatattgta ctttgggatt atagacatac ttcaggacta tgatatcagc 360
aaaaagcttg agcatgcata caagtcttcc caatatgacc caacgtctat ttcagcagta 420
gattcaaaac tg 432

<210> 6622

<211> 311

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-005-Q1-E1-D3

<400> 6622

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cgggtgagtca gtcactttgc tcaatttagt tttgcttgat gtttgaataa agtaccttga 120
tccgaaatta ttaagtgtta gagagtcttc acatgggtcgt cacaaatgtt cgactactca 180
ttgatcgta cttagactct catcgacta ctttattgtc gctcaaatgc aacacataga 240
tcgtcgtata tcatgggtcgt aactggaata tgccgagatt tatcaactgt aatgtctcag 300
ctacatatcc c 311

<210> 6623

<211> 427

<212> DNA

<213> Triticum aestivum

<223> unsure at all n locations

<223> Clone ID: LIB104-005-Q1-E1-D4

<400> 6623

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 cgggaacccg aacgtgtacg cgagcctcct tggggttctg tgggtcttcg tggcaaacag 120
 gtggcacctg gagatgccag acattataga tggctcgatt tcgatcatgt caaggaccgg 180
 ccttgggatc ggaatgttta acacgggcct gttcataggt ctacaggaca agctcgctgt 240
 gtgccggcct ggacttacgg cgttgggcgt ggcgatgagg ttcgtcgctg ctccggcagc 300
 caccgcggtc ggagcgctac ttttgggact gcgtggtgac cttntgcgtg ttgccatctt 360
 acaggctgca ctgcctcagt ctgtcggagc atttatcttc gcgctagagt atgacctgca 420
 cgctgat 427

<210> 6624
 <211> 401
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-005-Q1-E1-D9
 <400> 6624

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 aaaaaggacc ttcgaaatcc aattttatgt gtagcgcaaa ggagttgcga ttcctttctta 120
 ttcctataga acatctagta acaagaatat gaaatcgtaa atagcgaaaa attcttgtct 180
 tgcgcggctc aagtctaagg aaataaaaaa attcgcttat acaatttcat ctacatcgaa 240
 tttatatatc agaatagcgg atagaggcat cattaaagga gtcaggctta cttactttat 300
 gcttctttcc aattttatgg tggatttgat aagaaccctt atcgctttct tgataaataa 360
 tcgacaaaaa aagcgttttt tttatataac ctgcttggtt t 401

<210> 6625
 <211> 349
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-005-Q1-E1-E12
 <400> 6625

gggtcgacgg ccagctgaaa atagatacca gaaaagggtca gtggtgtttt ggagggcgcc 60
 tcgtctgtat gtattccatc tgtgtaagtt aattcatttg ggtgattggg tcggctgtag 120

gcggtatatac tcaacacagt gggggatttg taatgtttct ggttttgtgt tccttgtag 180
atgaaataat aacttaactt gtttataaca tgctcctcaa ttttcttcct aacaaaaaat 240
aaataattac aaaaaaaaaa aaaaaaaaaa aaacaaaaat ataagaaaaa actaaaaata 300
aaaaaaaaaa attaaaaaaa aaagaaaccc taaagtttca acgaattaa 349

<210> 6626
<211> 431
<212> DNA
<213> Triticum aestivum
<223> unsure at all n locations
<223> Clone ID: LIB104-005-Q1-E1-E2
<400> 6626

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aacttcaaac aaagtgaacc aacttcaata agattgatag caactactca tacaagtgcc 120
tagagcatat atcaagcatt agaactactt ggaaccatat atatttgaca tgcaagctca 180
agaacatggt cactgtcggg gtcaaaaccg gcggatctcg ggtagggggg cncgaactgt 240
gcgtctaggc tggatgataa caggaggcag ggaacacgat gttttaccca ggttcggggc 300
ctcttgatgg aggtaaaacc ctacatcctg cttgattaat attgatgata tgggtagtac 360
aagagtagat cttacacgag atcaaggagg ctaaacccta naagctagcc tatggtatga 420
ttgttgatgt g 431

<210> 6627
<211> 359
<212> DNA
<213> Triticum aestivum
<223> Clone ID: LIB104-005-Q1-E1-E3
<400> 6627

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aaatctcgtt tttatctagt ctttctctgt caaacctcg ccgtcgctag gcagccagca 120
tcagcaatag tactactact actactagtg ccatttccgc cctgctctt tcagctatct 180
ccttttctcct ccataaacc cttgcctttt agctaaaaac ttaaatgttt aagttaaaaa 240
aaaaaaaaa aaaaaaaaaa aaaaaaaac aaaaagaaaa aaacaaaaat aaaaaataaa 300

agaaacagga taaaccggaa gctctagagg tttaaagcta atctgcatgt gaatgaaac 359

<210> 6628

<211> 377

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-005-Q1-E1-E9

<400> 6628

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attatatcaa ggatcactat gtcaattcgt gctgtcattc attccacatc gataattaag 120
acgatcatac tgacatgatg cacgaattct ttatagatgt ttctcatatt ctgtacaaaa 180
tgtattcaca tttaatgggt cgatcaaggg ttgtcatgta atgaatcgtc caaggaaaca 240
gtgcatttga tgcttataga cgacaatttt gctccattaa tcctatttga ggatatcttt 300
tgctgggtatt tcgagatgtg aaaaattgtg tatgatcgac tctacaatgg tatccagccg 360
tatgatgact atttcat 377

<210> 6629

<211> 363

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-005-Q1-E1-F12

<400> 6629

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gcggcgacgc caagaaggaa ggcgggcgacg gcggcgacgg caagaaggac ggcgatggga 120
agaaggacgg cgacgggaag aaggacggcg agaagaagga ggagggcgac ggcaagaagg 180
acggcgggcg gaagaaggac ggcgacaaga aagaggaggg cgacggcaag aaggacgacc 240
agaagaagcc cgccgccgtg gccccgctgc cgttcccga ccacatgccg ctgccgcacc 300
acatgccgcc gccctacatg ttcaacgccg actacatgat gaaccagtac cggccggcgc 360
cgc 363

<210> 6630

<211> 421

<212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-005-Q1-E1-F4

<400> 6630

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 agttgcgtcg agcgagattg tctttagtta gcataactcc tcttcaaaga taccacatga 120
 aaatcttaac tttagtggca tcttcgattt ccagatttgt ttataattgt ccatttgaaa 180
 atgttgaata agtattatat atgttgaaga agtatttgaa aatgttgaat aaatattaaa 240
 aatgttgaac aagtatttga aaaatgttga ataagcatta aaatgttgaa caagtatgta 300
 aaaattgttg aatatgtgtt cggaacaatgt cgaacgtgta tacaaaaaat gtttgatcac 360
 ttattaaaaa atgttttttg acatataaga aaaatgcagc gaaaacgaaa acaagcataa 420
 g 421

<210> 6631
 <211> 67
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-005-Q1-E1-F6

<400> 6631

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 tgagata 67

<210> 6632
 <211> 366
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-005-Q1-E1-G1

<400> 6632

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 aacacgaaca catttgggtc tgcagccggt ggaccacttc aggttcctcc actccaacct 120
 gggtcctcag ccaggacgct cctagctatg gttttctccc agaatgtctc ccctggagca 180
 ccaaacttgc tactgcaggt tgcagtgaag aataatcagc aacctgtgtg gtatttcagt 240

gacaaagggt cgctccatgt cttctttggt gaacatggca aaatggatcg aacgggtttt 300
 ctcgaggcct ggaaatcttt acctgatgac aatgaatttt caaaagaata cgccacgttc 360
 tgtcat 366

<210> 6633
 <211> 395
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-005-Q1-E1-G10
 <400> 6633

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 acttgtgttg aggtttgcaa gtctcgtagc atgcacgtat ggtaaacgtt gtgtgacaaa 180
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 tgggtcttttc ctaccaatct atccccctag gggcatgctg agtagtactt tgcttcgagg 300
 gctaataaac ttttgcaata agtatatgag ttctttatga ctaatgtgag tccatggatt 360
 atacgcactc tcacccttcc atcattgcta gcctc 395

<210> 6634
 <211> 315
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-005-Q1-E1-G11
 <400> 6634

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 ctccgccatc atctaaatcg tcgtcctcgt cttcagcgtc atcgtggacg ccgtcggctg 120
 ctgtgccttc aggaacaagc gccgctagct atacaacggt ggcggatagt gggatcaagg 180
 cgcgtacgcg tgatcgcgcg cttgtctcgg ttatttaatg cttggtttgg atggatgcga 240
 tgggtctcttc gtgtcattca tcttcgttgg cgttggttct cttacgatgg tctggtctag 300
 ctttgtgcat gcgag 315

<210> 6635
 <211> 411
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-005-Q1-E1-G12

<400> 6635

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ctatgggcaa tatgggtggtt tagaagaaaa gctattcacg aggagatctt ccagagccct 120
gcttccacgc atcagcttat ctgtagcttc ataagggagc tagaatacat gccgggcaac 180
cagcatgggtt ttatgaagat ccatgtagac gctagcattg caaggaatca gaacaagggc 240
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atztatggaa ttaatgatgc tgcaacaacg gaagctatcg catgtcgtga ggccctttca 360
ttggtggatg atttgatggt acaaagcttc gtaatagcat cggactcgaa g 411
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<210> 6636
 <211> 409
 <212> DNA
 <213> Triticum aestivum

<223> unsure at all n locations
 <223> Clone ID: LIB104-005-Q1-E1-G2

<400> 6636

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attcgctttg atgagatgat caaagcattt gggtttatgc agacttatgg agaagcccgc 180
gtttacaaga aagtgagtgg gagctctgta gcatttctca tattctatgt agatgacata 240
ctcttgatgg gaaatgatat agaacttttg gacaacatta aggcctactt gaacaaatgt 300
ttttcaatga aggaccttgg agaagctgct tacatattag gcatcaagat ctatanggat 360
agatcgagat gcctcatang tctttcacia agcacatacc ttgataaga 409
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<210> 6637
 <211> 393
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-005-Q1-E1-G3

<400> 6637

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acccgacgca ctaccgggag ccgaggttct acaccaaggt gtttaaggaa tgccactcct 180
atgaccaaga ggggaattcc tttgagcttt ctctggtaac ttccaagtgc attggagctt 240
atgtgaaaag caagaagaac cagaaccaga tatgttggtt gtgggagaag gtcaagtgca 300
cagaagacaa aggttttcag agattcctgg acaatgtgca gtacaaatcc actggaatct 360
tgcgttatga gcgcgtgttt ggggaggggt atg 393

<210> 6638

<211> 425

<212> DNA

<213> Triticum aestivum

<223> unsure at all n locations

<223> Clone ID: LIB104-005-Q1-E1-G4

<400> 6638

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cgggtgtcgcg acgtccgggt ggaatcttag gagagtttag ctccattttt attagggatg 120
agttaagttt agttcgtgtg ccagtcttaa taaaaatcaa gcatctgtat aattaaggag 180
gctactgatt gttgtagcct tcacctgcaa tttatccgag ctttgaatga atggacttgt 240
gttcggaaaa agaaaaatac agtgctgctg gcttagagta gagtttggtt tctagtcgta 300
taatgcaatg tttacttate tcttgctctt agtttcatca tcagtaatga ttttattcct 360
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ttttt 425

<210> 6639

<211> 233

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-005-Q1-E1-G6

<400> 6639

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tactatatgg atttatgtgg catttttagca agaccacact tggtcatgta ttccgtagtc 120
cagtttaggt tcatcgactc aaatgtgggt tctcaaggaa gattctctta acggtgggtta 180
tctatcatgg tgtcacgcat gtcgaagtaa acttgctcat tgatgttgca cat 233

<210> 6640
<211> 416
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-005-Q1-E1-G8

<400> 6640

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cctcccactg acagtgccgc caatccatga gatccagtcc tggcgccctc ctctattcat 120
cgccttgcct tgggaccctg caagatccat ggcataggat cctgaccacc agcgccacga 180
gtcatgggga gatectccct cggcttctgc ggcaccggcg agatcctccc cagcttatac 240
ggcagtggcc ttctcctccc atggtggcct gaggaggagg ctccacctac cctgggtccg 300
ctccaccacc acgacttgca tagctagatc accgcacggg ctgccatcag gcgaccacct 360
ctctgtctcca gcgcattggg tcaccgttcc ccatgtgtgt gctcctgtt gaccat 416

<210> 6641
<211> 409
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-005-Q1-E1-G9

<400> 6641

cggttcgagc cgaaggagca actcctccac gaggtcatgc gtcgttcgct tacctcggcg 60
gagacggacg ctaggcgact ccagcacaag aatgtgatgg cgctttggct cgggatcgag 120
gtgtcgaagc gccttgcgag ggagaatgag attgctaaga ccagggcaga gcaccacacg 180
aaggagtggg accgcgccat ccagcgctc tccgggtaca tctcctcgac gtcggacatc 240
agcagcaccg gcacgaaaaa tgacgatgag gatcctccct ccgcggacgc ctacacacag 300
cagatgtacc accgctccgg atactgcaaa ggcaagggcc cagacaagaa atggtgatct 360

ctgccccctc tagctaatat agtttgtatc cagtaatcta tcttgcaaa 409

<210> 6642
<211> 372
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-005-Q1-E1-H1

<400> 6642

tcgacggggc atatgtattc tatggtgggt gaacaaatta ctgttgagca attgacaaaa 60
ttgagcatag ttatgagaat atctaggtat gatcatgtat ataggcatca cgtccgagac 120
aagtagaccg actcctgcct gcatctacta ctattactcc actcatcgac cgctatccag 180
catgcatcta gagtattaag ttaaaaacag agtaacgcct taagcaagat gacatgatgt 240
agagggatag acgcatgcaa tatgaagaaa accccatctt gttatcctcg atagcaacaa 300
tacaatacgt gccttgcctgc cttactatc accgggaaag gacaccgcaa gattgaaccc 360
aaagctaagc ac 372

<210> 6643
<211> 380
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-005-Q1-E1-H10

<400> 6643

gccataatgc atggcaaatt aagacaatct aaaggaggaa gaatggagat ccattttgag 60
gcacgtttaa aaaggtcaca tgatgctaca tagtcagcca agttagtatc agaagcagcc 120
agtgttggtta cgtgtcaagc acgtatcctc ccatcatggt tctactacag ggatgagaaa 180
cactactagcc agtttaacac cttccttgac gatttaaccg taactacagt tattccacac 240
actttgtaat cttgtcttgc acagtaccat accttcaata cttgtcatgt gatcactcat 300
attcattttt catcaaatga tgttcaagtt ggatccacta gatgctgcac ctatcaatgc 360
atgcactcat gtttttcagt 380

<210> 6644
<211> 425

<212> DNA
 <213> Triticum aestivum

 <223> Clone ID: LIB104-005-Q1-E1-H11

 <400> 6644

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 ctttggccta cccggcctcg gtgcctcttg ttggcgagtt gctgcggggt cgacacggcg 120
 tcccgaatgt cttccctata aaacaccata tgtatatggt aggtgaagtg tctaaagggg 180
 gatcctagtt tttggagttg ggatttttgg ttttcttacg tgcgatgcag ggagcagtc 240
 gggatagtcg cccgtaatgg ccaccatggc gtcacatag ctcaattgat agaactgtct 300
 gtctatcagc tccacgaata tgtccggatc ttcttcgagt acggggaccaa cggccccggtc 360
 agggtcctct ggttgtggag atgggctggt ttctccctt acagcttttc acagtttctc 420
 cataa 425

<210> 6645
 <211> 374
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: LIB104-005-Q1-E1-H12

 <400> 6645

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 atacctocca gtgcgctcaa atactgcaat tgcatgcacg catggcaacc cataaacatt 180
 ccactttcgg caagtgcagt catacgtctc aatgttgaca acattaactg agtcacgca 240
 taccttgaat aaattaccat ccccatcact ttctgtgggc ataacatcga gtgagtgagc 300
 tttgctaact tcttctgca atttctggtt agctacaggc gttaatccgt caggccattc 360
 attacaagac tctc 374

<210> 6646
 <211> 441
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: LIB104-005-Q1-E1-H2

<400> 6646

ggtcgaggcg agatccaaaa ggacagggct gcggttgaat tcgaaaagaa ggcacatgct 60
gataaccttt tacaaagtaa agcaatggag aaaaatatga ttgccgtggc tagtgagatt 120
gagaggcttc ggggtgagct tgtaaagtct gaaaagcggg cactgctgt caccacggca 180
gcagctgtaa ctaaccctgg gtatgctcaa ccgtacagca gttctgaggc aacatatgcc 240
acaatgtatg gcaatcccgaggcagcatat gcagcatatg gcagtgtga ggcaacatat 300
gctggaacat atgccaatc tgatgcttat agcaccacta atcaggctca gactcgact 360
gatggtaatc cacattacat gaccagccg gctcactatg cgcagtacga aggccagcag 420
cagcagcagc agcagcagca c 441

<210> 6647

<211> 413

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-005-Q1-E1-H3

<400> 6647

taccagaaat ggaggtggca gcctgatgcc tgcgacctcc caaggttcga tgctaagttg 60
cttcttgaga agctaaggaa caaaaggatg atgtttgtgg gggattcact gaacaggaac 120
cagtgggagt ccatggtgtg cctggtccag tctgtggctc catgggataa gaaaaagctt 180
gtcaagaatg gatctctaaa tgtgttccgc cttcatgagt acaatgcaac gattgagttc 240
tattgggctc ctttcctagt tgagtcgaac tcagatgatc cagacattcg tagcatcact 300
gaccgaatga tcacgccaac atcgatgcc aagcatgcag caaattggat aggggtggac 360
tatttgatct tcaacactta catttggtgg atgaacaccc cgaacatgaa aat 413

<210> 6648

<211> 388

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-005-Q1-E1-H4

<400> 6648

actcaaaaaa tcaacgtcta cgagcatagc atagcagtat aagcataacg tagaagtaac 60

tcccaaggtt tgaatgcagg acagtaggtt cctacctcat caactacttc ccaataccca 120
catgttatca aatcctaacc atgcaatgtt tgagggtgaa actaatgcat aaaaactggg 180
tatgaaaggg atatgatcaa cgtgtgaact tgccttgtag tgttgatgaa gatgattcgc 240
actcataact cttgatagtt ctactcgtca cactccgttc aatctagtaa gaaagcatta 300
gtaaccacac ataagcaatc actcaaaaga ccgggaagaa tgaagaacac gattcgaaaa 360
acatcaaaac caagcaaata actcttgc 388

<210> 6649
<211> 443
<212> DNA
<213> Triticum aestivum
<223> Clone ID: LIB104-005-Q1-E1-H6
<400> 6649

ccgggtcgac gggaagctta atgattgttt tgagatatgg aggtagtgat attaaagttg 60
tgctagttga gtagttgtga atttgagaaa tacttgtgtt gaagtttga agtcccgtag 120
catgcatgta tggtaaactg tatgtaacaa atttgaaaca tgagggtgttc tttgattgtc 180
ctccttatga gtggcggtcg gggacgagca atgggtatatt cctaccaatc tatcccccta 240
ggagcatgcg cgtagtgttt ggtttttgat gacttgtaga tttttgcaat aagtatgcga 300
gttctttatg actaatgttg agtccatgga ttatacgtc tctcaccttt ccatcattgc 360
tagccctttc tcacattgag agttggtgca aacttcgccg gtgcatccaa accccgtgat 420
atgatacgct ctttcacaca taa 443

<210> 6650
<211> 335
<212> DNA
<213> Triticum aestivum
<223> Clone ID: LIB104-005-Q1-E1-H8
<400> 6650

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agtggactag ggggaacgga tgcgccccctc tttccttctc ttcacgtttc cctttccttc 120
tcacgtactc ctacgaggtg gaacggctcc tagttctacg aggaaagggg gaatccgatt 180

cccggttgga cttgcactct cctgttgctc accatagatc gggcccagcc ctcttgacca 240
ctacaccctt atatacctgg tcaatgggca tccatacac tcattaattg atctcctgat 300
ctcttaacca tgtgcggtgc cccctccac catat 335

<210> 6651
<211> 413
<212> DNA
<213> Triticum aestivum
<223> Clone ID: LIB104-006-Q1-E1-A11
<400> 6651

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ggacgaggaa gatcagatcc aggtcaatgg aaaagcacc tcaatcgggt caaggtgcag 120
cgtgaagaag ttgcacgacc tgatttcctc atttgatgag gagaaacgac agtatgtagc 180
cgagatggag tttggggggc tgctagagct accaaagata acaaggacgg ataggcattt 240
cttgatgtct atcctaagcc acatcgatga ggaggcaagt tcaattacaa ttgatcacia 300
acgcgacatg caatTTTTcg atgaagatgt caaactggtc atcggcatac catgtggaac 360
tgctcctgtt cgccctccag accacgctgt tccggaggca gtggtgacac aga 413

<210> 6652
<211> 418
<212> DNA
<213> Triticum aestivum
<223> unsure at all n locations
<223> Clone ID: LIB104-006-Q1-E1-A3
<400> 6652

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gcagcaacaa caacttcagc ggctacggcg gcaagaaggg cgctgccgac ggcaagaaga 120
agcacgcaa gaacgagcga tgggacaaca accatggcgc ggctcggag aagcggttca 180
agacgtgcc ggcgtccgag gcgctgcccc ggaacgagcc catcggcggc tacatcttcg 240
tctgcaacaa cgacaccatg gaggagaacc tcaagaggca gctcttcggg ttgccatcca 300
gatacagaga ttcagtgagg gcgatcatgc cggggctgcc cctcttctc tacaactact 360

ccacccatca gctccacggc atcttcgagg ctgcgagctt tggcggagcg aacaatca 418

<210> 6653

<211> 423

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-006-Q1-E1-A5

<400> 6653

acgggtcact tcaaacaaac atgtatcttt tttttttctt tcgattctgc ctctggcacc 60
ggaatagttc tatgtcacia aaatcaagcc caatcaagcg tggcacaggt cctagataca 120
cgggacacac gcacctagtg gagcggctct atatggcgcc ttaggcggca aatctcttcc 180
ctggcgctct cgccaagctc gcctgagcct agcccaacaa aggctagtcg atcggggcgc 240
agttctccta cgttcgctgg gacaatgggt gatcgggtcaa ccgttggcca tttggacttc 300
tgtaaaaaat gaatctgaaa aattgtacaa aaacatgaaa tttgaaaaga acatggattt 360
gaaaaaagta catatatttg caaaaaaaat gcaaatatga actaataaat tttgataaaa 420
ttc 423

<210> 6654

<211> 389

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-006-Q1-E1-B1

<400> 6654

caatggaaga tgtaggcgtg atatgtcaag tagtggacag ataagccaac cactggatgt 60
ggttttgagg gatTTTTTgca gtgggggtttg taggggtgcta tgccgcgctg ggtttgggat 120
ttgaaataaa acgaagggag atgtgccacg ctcttaaatag ccagtcttct gctctaattc 180
tgctaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 240
aaaaaaaaaa aaaaaagaaa aaaaaaaaaa aaaaaaaaaa agaagaggaa aaaaattcaa 300
agaataaatt aaaaaaaata aaaaaaaaaa aaagaaatag agataaaaaa aaaaaggggg 360
gcccccaaaa ggttttacagc ctcttttttc 389

<210> 6655

<211> 432
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-006-Q1-E1-B2

<400> 6655

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gggtcgaccg gagaccctga tacaattggt gatgacattc tggtagccac cgatggacga 60
gaaccttgcc tattgggtccg cctcggttga cgagcaggaa aatgggtctc ttcgtccctc 120
gcccttggtg ccgtcggtgt tgccgacata atcgacaggc tagcctctga cttgccttgc 180
ttgcatgata acgcaagacg tctccaccct tccaactttt aaccacatg gtgggccccat 240
aaccacagt tccacaggat caaaacctga ctctcctgta ccccccggt ttccaaagtt 300
attccccacg cttgacttcg tatgtaattc acgggtcacc ttctaatagc tctattctgg 360
tatcagacgc tatacttact ctcggtgctc tgaaccctt tctcactctg gttcagactt 420
cgagcaacta tc 432

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<210> 6656
 <211> 413
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-006-Q1-E1-B3

<400> 6656

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tagtaagatt gtcccttctc tctttttctc gcttttttgg gccttctcat tttatggcct 120
ttctctcttt gttttattcc tcaattggga caatgctcta gaaaatgatg atcatcacac 180
ttctatttat ttacaactca ttgattacaa ctcgacacta aaacatagta tgactctata 240
agaatgcctc cgggtggtgta ccgggatatg caatgagtc tcaatgatat gtatgaagct 300
ttggcatcgc caagcttagg ctcttgccaa tccttgttcc ataatccatc agatctatca 360
tgcaaaacgt gaaaacttca gaccagacca cttaacaaat catctcgtga tct 413

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<210> 6657
 <211> 373
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-006-Q1-E1-B4

<400> 6657

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ttgagctgat gtttgtttca gctagagaaa tcgttacgcc cgctcataat tccttttttcg 120
acgctctgga gaataataac tactgggtata tcattctata tcaaagccgg cttgtgaaat 180
aaatgatccg ccgtcttgcc ttcaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaacggac 240
gcacaaaagg attaaaacat aaagtagacg taaataaaaa atcataacat ctacaataaa 300
gtcaacaaaa ttaaatataa atgaccgtcg ttttaaaaaa gtcattgactg ggaaaaaaaa 360
aagagtggcc ccc 373

<210> 6658

<211> 433

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-006-Q1-E1-B5

<400> 6658

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tggcgtgggc gacacgggtc ctgtcagcag tgtgcttctt cgcggcgggc gtcctcttcg 120
ccccagatgt cttcatcggc gaccgtccg gctccggcgc caccgccgtc acggccgcca 180
agggtgcccc cctcctctgc ttcgccacct gctggggcgc tgcgtctctg gctaccttca 240
tcggtggaat catcatgttc aagaatctgc cgaggcacca gtccgggaac ctgcagggga 300
agatgttccc ggccacttc acgctcatct ccgcctgcgc cgccgtctcc gtcgtgcct 360
tcgcctacct ccaccgtgg aaggccgcct ccgcgtcga gcgtaccag cttggcttcc 420
tcattctccg gct 433

<210> 6659

<211> 305

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-006-Q1-E1-B8

<400> 6659

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 tgcccgttga gctgatgttt gtttcagcta gagaaatcgt tacgcccgt cataattcct 120
 ttttcgacgc tctggagaat aataactact ggtatatcat tctatatcaa agccggcttg 180
 tgaaataaat gatccgccgt cttgccttca aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 240
 aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa acaaaaaaga 300
 cagaa 305

<210> 6660
 <211> 380
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-006-Q1-E1-C1

<400> 6660

cgggtcgacg ggcacgggag gaaggcgac gacgacgacg acgacgacgg tggcgctac 60
 cggaagccaa agccgtccca cggcgacgac gacgaccggc ccagctacgg ccgcaagaag 120
 aatgacgacg acgacgacga tgagaggcgg tcgcggtaca agaagcgga cgacgacgac 180
 gatgatgaga ggaagccacg gcacaagaag tgcgacgatg acgacgacga cgaccatgag 240
 aggaggccgc gctacaagaa acgtgatgac gacgacgatg acgacgatga cagaaagccg 300
 cgttacaaga agcgcgatga cgacgacgac gatgatgata ggaagccacg ttacaagcac 360
 gatgatgatg aggacgacga 380

<210> 6661
 <211> 352
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-006-Q1-E1-C11

<400> 6661

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 ggacaacctc aacaaggcta cgccgcctac tgcaagcgtg aaagcaaagc cccgcagaag 120
 cttctgaacc cgatgggcca cgagtcaca gagttagtga tctcctttga ctgatttcgc 180
 taggatgata ctacatgagt tagaagtttg tcgtgccggg gacggaggcg agacggaggc 240

ttggcttgtg aagtgacgct tggatgcacg cgtaattttc tttacatttt ttgttctcgt 300
 tttgactttg aggatcgcg c cataattcctt ttgaactgtc aactgcattc ag 352

<210> 6662
 <211> 437
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-006-Q1-E1-C2
 <400> 6662

gggtcgaccg gcaatgttga ataataattt tagtgatttg ttatagtaga aaatgataag 60
 tttttgcggt gggtttatact aacctatctc acgagttctt gttgagtttg tagtgaatga 120
 agcttttttg agaaatagag aaaccatgat atgagaggaa ttaaggagac acaaaagtgc 180
 aagcttgttg atgccaagg caccccaaga taatatttca agaagtctca agaatctaag 240
 cttggggatg cccagtagg catccacct ttcttcttca acaactatcg gttagtatct 300
 gttgagccta atttttcctt attcacatga gttgtgctat ccttgcaatg tcattttatt 360
 ttgttttgct tgatgtttga atacaatacc aagatctaaa attccttaaa gttagagagt 420
 cttcacatag ttgcaca 437

<210> 6663
 <211> 418
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-006-Q1-E1-C4
 <400> 6663

ggttcacaca cttttgtggt ttgtctaatt gcaggtgtat gggacatttg tacaatccac 60
 atatgaagat aaggaagaaa gagatgttta ttgtctgtcc aaaaagttct ctcacgtcac 120
 ttttgccca agagaagata gagtccaagt ctctcacgtt ctggattcag attcggactg 180
 cacagacata cctgactcaa aacgcacaca agtttttcat acggactccg aattgggtga 240
 ttcttttttt gttggaaact agatttcgtg cactttccaa cccaattgga atcaccttca 300
 aattcgtccg gagcgttgag ttgtggacga aacaatctga tgctgcagca gaatccgagt 360
 caaactacaa gtccaaagggt gttacatcac ctccacttgg gccattggc cttgtacg 418

<210> 6664
 <211> 426
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-006-Q1-E1-C6

<400> 6664

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gggtcgacgg gtattattca cgtcatgggt tttacaagta caaaaacgac gtaacctaga   60
tgaggtcaca acctgaatat agtccgtgtg gttatggagc actgctagaa accaagaggt  120
gctgggttcg ataccatggt ctgcaagttt tttaccaacg agggaaaaac aagtcccgag  180
cggaatcac ggataagttg caaaaatcct gccggcagga tttgagcttt tccgattaaa  240
aaaatatgca tctagtgtaa aaaaaaacat tgtgctactt ttgaaaaatg tcaatagcat  300
ttggaaaata tttgtgaaat tcaagaaaaa tcacgtgttt cagaacaatg ttcatttcca  360
taaaatgttt atgcaatgaa aataaatggt tgcataattt aaaaaaatcc atcgaataaa  420
aataaa                                           426
  
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<210> 6665
 <211> 403
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-006-Q1-E1-D12

<400> 6665

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attcccgggc cgacgggtcc ggagaaacaa ctctgcactg cgagcatctg ctgagcctgg   60
agtcaggacc gaccatcgtg aaggcccgga ccatgtggcg gccaaagggg gccaaagtccc  120
aggaaacggc ggctctgtcg tgggtgatttt cggcggggac ggttcggtca agcccggagc  180
aaccacccgt acgcgttctc ttctggaaaa aatcacacat tgcacatata tatggatgcc  240
tataatccca tcatggcatt gcgaagggat gcccaagtta tatacatata catagaatgg  300
aagtgtgtga aggtggaggg ggtcagaggg gtataggaga gcgatcagaa gccgagaagg  360
caaattggtg ttgtaattat ctgagtttgt agctactgcg gtg                               403
  
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<210> 6666
 <211> 370
 <212> DNA

cctcgattat tgcggatctg ttaaacaaag aaggcatcat aaatgttagc ttcgatgaga 180
 tgtcatgccg gtttacagta accaggaaag atgatgacac gacgggtcaa cgactacaag 240
 aagatdddga agacaaagat ttttgctaag gattgacatg aaccggttca aatcaatctg 300
 gggcctaattg tcggggatat tactactggg cgtaaaccgg cctacctggg ccgggttaac 360
 ttcattagta gttcaatggt gttaaagccc aaagaggcag ataagggccc aaggcctaaa 420
 atcggtttag aacctat 437

<210> 6669
 <211> 411
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-006-Q1-E1-E5

<400> 6669
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 ccttagcttc ttatgctaatt ggtatctatg attactatga tgtggaacaa atagaaaaat 120
 ttgttgcttt tatgtgtgct tatgagattg aatctatggt taaagcattt gacgattttg 180
 attattcggg ttatagacca gaaaattttg ctatgcttag atattgctat gaaaattatg 240
 aatacaatta caatattaat gcatttattg agaaagtctc ccctgtccaa gaagagacta 300
 atattttgca ggaagctatg gaagaagaaa ttgatgaaac tgtgagctca ttggatgaaa 360
 aagatgatga ggagagcgaa gaacaaaagg aggaagagcg gattagctac c 411

<210> 6670
 <211> 427
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-006-Q1-E1-E8

<400> 6670
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 ttatgataat tattgtgatg atatgtatgc tatacaaagt agtgatgatt atattaaaac 120
 ttgtcatgat tatgattacc ctttttctga atattactct tttaatgtgg aaacaattta 180
 tagtattcga gtttcttatg atactccac tattccgaat gagaagaatt ttgcttatgt 240

ggagagtaat aaaatttcta tgcttgtaga tcatgaaaat aatgctttat gtaatggtca 300
tattgttgaa ttcattcatg atgctactga aaattattat gagggagtaa tatatgcttg 360
taggaattgc aataatatca agtttcctct ctgtgtgctt aaagttttta agttatgttt 420
gttttgc 427

<210> 6671
<211> 426
<212> DNA
<213> Triticum aestivum
<223> Clone ID: LIB104-006-Q1-E1-E9
<400> 6671

taaggctctag aattcccggg ccgacgggcc gtttaagcat attcatattg tccttgggtg 60
ttcatatagg gtgaatTTTT ttggtttcca ataagtttcc caacaagaat aagcaatgaa 120
gtgtaagcca agtcctcaaa agattccaac ctgaagaagc caagaaccaa gtcctgtgtg 180
ggccaatccc caattaatgg cgaatcctaa ggtcaaccca agaatggcgg gcgatgttgc 240
gtgcaacccc taatccaaga caccaataat aacccttaaa ctaatcctca agtccaagac 300
attgataact tccttaaggt tgcctcaact cctgtggaca tttttgcccc taattgcaca 360
tgccacttac acgtgggacc gaccagtat aaagaaaaag aactctctgt cacacctcac 420
tctcac 426

<210> 6672
<211> 392
<212> DNA
<213> Triticum aestivum
<223> Clone ID: LIB104-006-Q1-E1-F1
<400> 6672

cgggtcgacc ggcgggatca tgatcatgag gaatatatag gataataagg tgggtgtatta 60
ccaccatgcc cgttgagctg atgtttgttt cagctagaga aatcgttacg cccgctcata 120
attccttttt cgacgctctg gagaataata actactggta tatcattcta tatcaaagcc 180
ggcttgtgaa ataaatgatc cgccgtcttg cttcaaaaa aaaaaaaaaa aaaaaaaaaac 240
aaaaaaaaaa acaaaaaaaaa aaaaaaacia aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 300

aaaaaaaaat aaaaaaaaaac aaaaaaaaaa aaaaaaaaaa ataaaaaaaa attttaaaca 360
aaataacaaa acaaaaaaaaa aaagggggcc cc 392

<210> 6673
<211> 446
<212> DNA
<213> Triticum aestivum
<223> Clone ID: LIB104-006-Q1-E1-F2
<400> 6673

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aaaaaaaaa aaaataaata ctaacaaaag aatcaacaca ataaaaaca aaaacaaaca 120
aaacaaatcc tttttcgaag acttaaaaaa aaaaaaatta aataagaaac caatccataa 180
catcaaaatc gtaaaaaaaaa aacaaaatca aaaaacataa ccgccccccc caaaatttcc 240
acctttactt tcccgtgcaa cccaattaaa accccccccac aagtggcccc ccaattttat 300
ttcagggcct cttttttaaa aaattcgacc cgtgaaaaac ccctgttttt cccaatttta 360
ccccttttaa aaaaaacccc tttttccaaa tttggataaa cctaaaaggc cccccctttt 420
ttccccttcc ccaaattttt ccccc 446

<210> 6674
<211> 434
<212> DNA
<213> Triticum aestivum
<223> Clone ID: LIB104-006-Q1-E1-F3
<400> 6674

gggtcgaccg gaagcggccg tcgatcttag gccactgacg atggaggacc tgaggcaggc 60
caaaaatcag gtcgccgcga gcttcgccgc ggagggcgct gtcatgaacg agctgaagca 120
gtggaacgac ctctacggcg aaggagggtc gaggaagaag gaggagctga cctacttttt 180
gtagaaccgg aaggatgggtg gatgtgtcgt gttgggcaaa tcgctgaagc cttggcagag 240
catgagcata catatgttgg tgggaaaagg agagaggatt tcctgtgagc aaccgtgagt 300
taggatcttg gagtgaatgg actccttgag atgtgtggca gggggcattg gatcatgtac 360
gattctttta tacgaacaag tattgtagtt attcattatt atatatgttg tacctggttt 420

gttaacctgt gtgt

434

<210> 6675
<211> 453
<212> DNA
<213> Triticum aestivum

<223> unsure at all n locations
<223> Clone ID: LIB104-006-Q1-E1-G1

<400> 6675

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ttgctgaatt aatgttgcca tgcacgcaca ggagttcgcc tgaatttcgc agtatatttg 120
ctggtgaatt aatcaaacag atgggaactg tcagtgaaca catcaaagca atatcacgaa 180
atggtgccaa acatgttggg ttagttcctt caggaaatga tgtttcatcg aacaaatcca 240
gtggtcgtaa aggaattcga ggtggaagtc caaatattgg caggcgagtc acggttggtg 300
atgatccaac tcctccttca gcatctgctc tgcaggcaat agtgtggctg cgctccaat 360
ttatcatcag gctgcttcaa gtaatcctgg cagatanggg catgaggcat acatttgctc 420
ctgcgatact aagcctgctt gcggcacgca taa 453

<210> 6676
<211> 431
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-006-Q1-E1-G10

<400> 6676

tccgggtcga cggggacatc gacgatgagt tgccgtcggt cagcaccac aagaccatcc 60
tcggtcactg ggaggatccg gtgctcgaag tctgacatct aagtgtatgg ttgtgtcttc 120
tcgcattcgc gttgatagtg tagttgtgat gttgcccaga agaaaatatg agacacagga 180
agagccgatg agatgagata gtgatcgctc ctgttaatat cgtggacgtt cggaagaag 240
ttgtagattc tagtaaccga tctggcctag ttttggtcat cctagtgttg gccttgggat 300
ttttgcagtg ggaggatccg actcactgtt tcgccttga ccttcatttc ttcactttta 360
gttacattct ttttagcttt tacttggtt tttcgtatgt acctttttat tcaacacatg 420
tccaagtttt t 431

<210> 6677
 <211> 401
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: LIB104-006-Q1-E1-G12

 <400> 6677

tccccgggtcg acggggatga cgacccctct ctattgccag agcaaccagg caagcccccc 60
 ctttgatcac cagatatcgc ctactcttct ctatactgct tgcattagag tagtgtagca 120
 tgttactgct ttccgtcaat cctattctga tgcatagcct gacattgttg ctacacctgt 180
 tgatacctta cctgcaatcc taaatgctta gtataggatg ctagtttata atcattggcc 240
 ctacattctt gtcagtctgc cttgctatac tatcgggccg tgatcacttg ggagggtgac 300
 acgggtatat actatacata catacatact atacagatgg tgactaaagt cgggtcagct 360
 cattgagtac ccgcaagtga ttctgacgat ggggctgaaa g 401

<210> 6678
 <211> 426
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: LIB104-006-Q1-E1-G2

 <400> 6678

gggtcgacgg gcatctagta acaagaatat gaaatcgtaa atagcgaaaa attcttgtct 60
 tgcgcggtct aagtctaagg aaataaaaaa aattcgctta tacaatttca tctacatcga 120
 atttatatat cagaatagcg gatagaggca tcattaaagg agtcaggtct acttacttta 180
 tgcttcttcc caattttatg gtggatttga taagaaccct ttttgctttc ttgataaata 240
 atcgacaaaa aaagcgtttt ttttatataa cctgcttggt ttattataat tataacaagt 300
 cctatatgga aatgcccgtt aaagagaaaa tctgtttgat tgtctctcgg ccaatatcga 360
 tttttagaaa gaaaaaacia gaattttctt ctttttttat taacattaag aaaaaagaa 420
 tataac 426

<210> 6679
 <211> 374

<212> DNA
 <213> Triticum aestivum

 <223> Clone ID: LIB104-006-Q1-E1-H10

 <400> 6679

 ggcagttcca gcttaaaaga ctcattgcgt ccggcgggtcc tccgccgggg aggccgccgt 60
 tctcgcgtcc gagctctctc ccgtactagg gatcttcttc cccactccac cgcttggttt 120
 ttctgactgc gaagtttttg gcctcttcgg gtcttggttt ggaggagggc tgattggggt 180
 agcagatccg ttcttgccgg agagcaccac ttccagcccc gtatttcctt tgtgggtttg 240
 caaacctgc acctcatcag aaggacgttt gcgattggca tcagaatcct ccgtctccat 300
 cttctcttgc ttaggatcat catcctcctt cgtagcttgc tggcccgacc cttgttggtt 360
 tgaagtcctg ttcc 374

<210> 6680
 <211> 396
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: LIB104-006-Q1-E1-H12

 <400> 6680

 cggggagcag aaggaagaga tggactggaa gggctcgtgt cgtcccgtac atatagccga 60
 gggaggccaa ccgtcggcct ccatgatcac aggtaatcat gaccggtttt gcatgcaggg 120
 acttgtcaat tcgtgcagtt gccgaggcat cgtggggagc caggatgccc acgtccaatc 180
 aaccgccacg cgtctcccaa ggccgcaggc tattggggccc gtggcgcttc gtacttgccc 240
 cttcgcttcc ctgctaagcc aagtctgggc gcgccttggg cccgggggct actgtcagca 300
 ttctgggaac ggggttacct agacttgccct gcctgcggcc tgcagcgtgg ctcagggagc 360
 ggcccagtac ggcccatctt catcagcgca tgccca 396

<210> 6681
 <211> 417
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: LIB104-006-Q1-E1-H2

 <400> 6681

cgggtcgacg ggggaatggt cttttccatc cccttacata ttgaagttca tcacaaagct 60
 cttgtagctc gatggaagcg actgaaggat tctgtcaatg accgcgtcat ccgggagatt 120
 aactcccagc tgagttaagc ggttatgtaa tccagacata gtgagtatgt gctcactgac 180
 agaactatct tctccatct tacagctgaa gaacttgtcg gaggcctcat atctctcgac 240
 ccgggcatga gcttgaaaaa ccattttcag ctcttcgaac atctcatatg ctccgtgtct 300
 ctcaaaacgc ttttggagcc ccggttctaa gctgtaaagc atgccgcact gaacgaagga 360
 gtagtcatca gcatgtgtct gccaaagcgtt caaaacatcc tgttctgcaa gggaaac 417

<210> 6682
 <211> 403
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-006-Q1-E1-H3
 <400> 6682

tcgacgggag gtgctcgagg ggcccacgat ataagattca actacatcat aaggctcttg 60
 taactcgatg gatccgagtg aacgattctg tcaatgatcg cctcatcctc ggagattaac 120
 tcccatctga gttaagcggg tatgtccacc agacatagtg agtatgtgct cactgacaga 180
 actatcttct tccatcttac atctgaagaa cttgtcgacg gcatcatatc tctcgacca 240
 ggcgatgatc tgatatacca ttttcagctc atcgaacatc tcatatgctc cgtgtctctc 300
 aatacgcttt tgggtccgcg gatctaagct gtaaagcatg ccgcactaaa ctaaggatta 360
 ctcatcagca atatgtctca caagcgttca taacatcatg ttc 403

<210> 6683
 <211> 384
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-006-Q1-E1-H4
 <400> 6683

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 tgggtccggt gccgtcgtg gaaaataata ggaggtgtgg gtgagtagag gaatggcctg 120
 gccagcaatg aagtagggta gggcgggtgc gcccggtgcg cagcacagcc ggccacggga 180

ggcgggagca ggcagtccca ccagagctgg tttgggcggc tggagcaaga agatcagata 240
 ttgaagaagc agcacggctg ttagattaac atccaacgat cactgctgct acaatcgttt 300
 gtggactaac ttgataagac caaagtacac gtcaacctag tatacccaca aatcagcctc 360
 caaatctgtc ccaaacaaca taca 384

<210> 6684
 <211> 410
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-006-Q1-E1-H6
 <400> 6684

attcccgggc cgacggggcg gcacaacgac acggagctcc acctcgccgc gcagcgcggg 60
 gacctcgacg ccggtgcgcca gatcatcgct gaaatcgacg cgcagatgac cgggactggc 120
 gaggagtctg acagcgaggt ggcggagatc cgcgcccgcg tgctcaacga gcccacgag 180
 gtcggggaga ccgcgctgct catcgagct gagaaaggt tcatcgacgt cgtcctcgag 240
 ctgctcaatc actctgacaa ggagagcctt gcgaggaaga acaaatcagg attcgatgct 300
 ctgcatgtcg ctgcaaagga aggccaccga gatattgtga aggtactcct ggaccatgat 360
 ccatcccttg ggaagacgtt tggccaatca aatgtgactc ctctgataac 410

<210> 6685
 <211> 390
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-007-Q1-E1-A10
 <400> 6685

ggtctaaata ccgggtcgac ctcatcaaga aggctacagt cttccactat ggatcaataa 60
 gcttgattgc cgagccttgc cggacagcgc atctgcacgc catgaacgtt gccaaagacg 120
 ccggcgcgct tctctcgtat gaccgaacc tgaggaggc gttgtggcca tcccttgacg 180
 aggctcgac caagatcttg agcatctggg accatgcaga cattgtcaag gtcagcgatg 240
 tcgagcttga gtttttgact ggcataact cgggtggagga cgatgttgcc atgaagctgt 300
 ggcgcctac cttcaagctc atgcttgta ctcttgaga tcaaggatgc aagtactata 360

ccaaggattt ccgtggaact gtcccatcct

390

<210> 6686

<211> 320

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-007-Q1-E1-A11

<400> 6686

atgagcaaat gaaagactaa aggatttcgt gaggatgagc atgatacttt atggtttgag 60

gatcacgtat atgtgcctaa tgaacccgag agcaggaagt tgattctgca agatgcccatt 120

gattcgccgc attcaattca tccaggaaac accaagatgt atctggatct gaaggaaaga 180

ttttggtgga caggaatgaa gaaggatatt gccgagtatg tagcagtttg tgatgtatgt 240

cggagagtta aggcagagca tcagaagcca aatggattgc tacagccatt gccaatatccc 300

gaatggaagt gggataagct 320

<210> 6687

<211> 381

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-007-Q1-E1-A12

<400> 6687

gagatcgtag agaaaaagga acggatgagc ataggaaaga ctaaaggatt tcgtgaggat 60

gagcatgata ctttatggtt tgaggatcac gtatatgtgc ctaatgaacc cgacatcagg 120

aagttgattc tgcaggaggc ccatgattcg ccgcattcaa ttcattccagg aaataccaag 180

atgtatctgg atctgaagga aagatttttg tggacaggaa tgaataagga tattgccgag 240

tatgtagcag tttgtgatgt atgtcggaga gttaaggcag agcatcagaa gccatatgga 300

ttgctacagc cattgccaat acccgaatgg aagtgggata agccaggcat ggactttaac 360

actggattgc ccaggaccca a 381

<210> 6688

<211> 417

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-007-Q1-E1-A2

<400> 6688

cgggtcgacc ggttcctaca acaaacttta tggaaattat aataagatgc cctctgattt 60
tgaatctaatt attaaaggat ttatttcttc gcaaagaat tttaatgcta tgattgaaga 120
aaaattgctt aagattgatg atttggctag gaatgttgat agaattgctc ttgatgttga 180
tgctttgaaa cttagatcta ttccacctaa gcatgatatt aatgagtctc taaaagccat 240
gagaatttca attgatgagt gtaaagaaag aactgctagg atgctgtgctt ccaaagatgc 300
ctttattaaa tcttgttctt ctaattctta tgaaaatcaa gatgaagatc taagaattat 360
tgatgtgtct cccattaaat ctttgttttg caatatgaat gtagatgaaa ctgaata 417

<210> 6689

<211> 430

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-007-Q1-E1-A4

<400> 6689

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ggatgcagat gtcgtggtga tctttcaaaa gtcaccgca cttgtattga tgtctggttc 120
cgtactagag gttcaaacaa gtgtgagata tgccagcaag ttgctgtcaa catacctcct 180
ccagagacac aagcaagtgg atggtttagc ccactctggg ttgcatttgc aattctgatt 240
ggtggtctat tattggatgt gctgatatct gtttctcttg gtgtttccgc acttcctgtg 300
aacataataa ttggtgttct gattgttctc ggcttgggca ctgcccttcg actagctctc 360
gagtgtgcc aggagtttgg ctgaggaga agcatgccaa ggatggaaaa catggcaccc 420
agtgggttac 430

<210> 6690

<211> 275

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-007-Q1-E1-A6

<400> 6690

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attgatgtct ggttccgtac taaaggttca agcaagtgtg agatatgcca gcacgttgct 120
gtcaacatac ctctccaga gacacaggca agtggatggc ttatcccact cggggttgca 180
attgcagttc tgattgggtg tctagcattg gctgtgctga gaactgtttc acttggagtt 240
tccgcacctc acgtggacat cataattggt gttct 275

<210> 6691
<211> 315
<212> DNA
<213> Triticum aestivum
<223> Clone ID: LIB104-007-Q1-E1-A9
<400> 6691

attcacgggc cgacgggtac cggaacacgc tcagcgcta caacttcgac cgcttcaagc 60
ggctccatac caagatgatg aaggacgttg acgacatgct cgcctatgac attcccgacc 120
tgctcaagca gttcaggaac ccctacgagt gagtcaactc aatgaccatg gatggaaatt 180
ccagacccca attttatttc tcgtgggggt cagcggaaac ttgaacttga ggtgtatgta 240
tgttaacttt gatcataacg ctttgatgta ctatataagt atcagtcaat caatatttac 300
atgacctcgt tgatc 315

<210> 6692
<211> 404
<212> DNA
<213> Triticum aestivum
<223> Clone ID: LIB104-007-Q1-E1-B10
<400> 6692

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agcgtggaaa agggatagta acattgtccc ttctctcttt ttctccatt tttttcattt 120
tttcaatttt tcattttttt tgtttgggat tctttggcct ctttttttat ttgggcttct 180
ttggcatctt ttgtcacat gggacaattc tccaataatg atgatcatca cacttttatt 240
tacttacaac tcaagaatta caactcgata ctagaacaaa atatgactcc atatgaatgc 300
ctcaagaagt gtacctggat gtgcaatgat ctacgtagc catgacataa aaaactggac 360

aagccatgaa aacatcatgc tagctatctt atgatcatgc aaag 404

<210> 6693
<211> 176
<212> DNA
<213> Triticum aestivum

<223> unsure at all n locations
<223> Clone ID: LIB104-007-Q1-E1-B11

<400> 6693

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ccctcaggtg cagaacctgg taaatggctg gtaagacaga accactgctg ttagtagtac 120

atagataggc ctgtaatttg tgacactaat cctttttcct cctctccctg atgcaa 176

<210> 6694
<211> 171
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-007-Q1-E1-B12

<400> 6694

gaggtgttcc cttgggggtat gttcgccgc attcatggcc tgcccaaagc cattacctct 60

gcaatttgta ggtcaaccac tacgcttggt atctgtatgt gtaatgtgat cttggtacta 120

tacaacttgc cacttcccgc agtataagta atattgagct tctgaatgtt t 171

<210> 6695
<211> 411
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-007-Q1-E1-B2

<400> 6695

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tcagacgcc gccacgcat tcgccttgct cgcggaccga taggctcaac cgctccttg 180

gccaagtgt ccaccgggcc cagtggagga acatgcccgt cgcattctcg agctgggtgat 240

ctccgatgaa atagccaact tggatgaacg cctgcaaaca cgagttcagg cagagccaag 300
agctactgta cgcaacggct gctgggtcatg gtctcatgga cgcgtttcat tttgttgagt 360
cgtttcgcacg tggatagcaa tgtatttaca gcaattatag tattgctctg t 411

<210> 6696
<211> 415
<212> DNA
<213> Triticum aestivum
<223> Clone ID: LIB104-007-Q1-E1-C1
<400> 6696

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cctgaagccc ctctaattctt caatgccgtt gttgagatca caaaggggag caaagtcaag 120
tatgaacttg acaagaagac tgggatgata aagggtgaca ggattctgta ctctgccgta 180
gtctaccac ataactacgg tttcgtacca cggacgctgt gtgaagatgg agatccaatt 240
gacgtcttgg tctctgatgca ggaaccagtc atacctgggt gctttcttcg agctaaggct 300
attgggctta tgcccatgat tgatcagggt gagaaagatg ataagctcat tgctgtttgc 360
gttgatgatc cagagtaccg tcatctcaac gaccttaagg agctctctcc ccaac 415

<210> 6697
<211> 375
<212> DNA
<213> Triticum aestivum
<223> Clone ID: LIB104-007-Q1-E1-C10
<400> 6697

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gtggatattc aagttttaga ggaaaaagg caaccatgga agactttctt gacataaaat 120
catctaaaat tgatgataaa caaataaatc tctttggaat atttgatggg catggggggt 180
cacgtgctgc tgagtatttg aaggagcact tgtttgagaa cctcatgaaa caccacaat 240
tcatgtcaga taaaaatta gcaataagt aaacatataa aaaaactgat tcagatttct 300
tggattctga aatcaacact cacagagatg atgggtcaac tgcacgcaca gcagttctgc 360
ttggaaatca tcttt 375

<210> 6698
 <211> 333
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: LIB104-007-Q1-E1-C11

 <400> 6698

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 aaagcccgca ctgtcagatg ggaaaacccc aaacgtcttt ggacgatgtc cagaaacggg 120
 gaacttgaaa gaataagaac acaaacatct gagccaccgt cagactcatc aacgtcggag 180
 ccagcgttgt caggcgcttg aatagcatgg gatcagtcca tcatcgaccg cagcttcact 240
 tcacttcagt tcagctcagc atactatgga gaccacgggg aatgtgagag tactgacata 300
 tgaccaatc gcgacaaagc cttgtgctgc aac 333

<210> 6699
 <211> 395
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: LIB104-007-Q1-E1-C12

 <400> 6699

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 agcaaccata gctacctatc atggcatttc catagccatt ccgagatata gtgccatgca 120
 actttccacc attcctttca gtatgagacg ctccatgatt gtcattattgc tatgcatgat 180
 catgtagttg acattgtatt tatggcaaag ccaccattca tatttctttc atacaagtca 240
 ctcatgagtc attgcacatc ctggtacaca gccagaggca ttcatataga gtcatttttt 300
 gttccaagaa tcgagttgta attcatgagt tgtaagtaca taaaagtgcg atgatcatca 360
 ttattagagc attgtcccag tgaggaaagg atgat 395

<210> 6700
 <211> 390
 <212> DNA
 <213> Triticum aestivum

 <223> unsure at all n locations
 <223> Clone ID: LIB104-007-Q1-E1-C4

<400> 6700

gggtcgacgg gccacggcga tgtcgtccta ggaggaagca agggatgcgc ggcgcgggccg 60
gggcggcggtt gatgcgcgcc gcccggtctc tctgcagatc tgactgangg tcagcaagtt 120
ttggaagata atgcgcaaac ttttaaatta gtttcttcgt ttattctctt agattgattc 180
tcttggggta gcaactggtag ctactccctc cgttcggaat tacttgtcgc agaaatagat 240
gtatctagac atattttaat tctagatata tccatttccg agacaagtaa ttccgaacga 300
acagagtaag ttctaagtgt agacatcttc aatagatgat ttagatgtaa aaataaggaa 360
aacgattgcg cgctcagtcg gctgatgacc 390

<210> 6701

<211> 197

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-007-Q1-E1-C8

<400> 6701

ggtcgacggg atcaacgaag ggatacggga agaccataac atgtatgtac ggtcgatcta 60
tttcagaacg catactatcg gtctcgtaca ctactacag ttgtcttcga cttatgacgt 120
catcagtggg agcaagggtga ccttgcttaa catccgtgca ctcaacatta tgcacgtttc 180
actcgcatgc ttgttac 197

<210> 6702

<211> 342

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-007-Q1-E1-C9

<400> 6702

gaagaagatc taaaacgtct cctgtgaacg gtacttcggt ttcgggtgtg agatcgacga 60
ggagacatcc aacaaactgg aaggcattcc tgggtgtttg tttgtgcttc ctgattcgta 120
tgttgatcct gagcacaagg actatggagc tgagcttttt gtgaatgggg agattgttca 180
gaggtctcca gagatgcaga gaagggtgga gcctgtgccg cagagagcat cagataggcc 240
tcggtacaac gacagaaccc gctaccaacg gatgacggag aaccaatagc ggtgatgagc 300

cgagggtgctc gattgaagat caaataacaa gccctggtgg tt

342

<210> 6703

<211> 327

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-007-Q1-E1-D10

<400> 6703

gtatgacaga gaatatcgat atacgttatt ctacagtatt actctacaga tccatcagct 60

ctaagtaaac tgcgtataaa tcatgtatgt ataacgtatg tggtactgat gttacaagtt 120

gagtccatgt gtgacggtgc ggctgtaaca caacatgtga ttcataatat ccacatgcct 180

caccatgtaa gaaatatgcc ctaaaaaaca aataataaag ttgttaatta aaattccata 240

ataacatgat aaatgtttta taaatcaatg ctaaaattgt aaataaccga aaacttaata 300

aaatgtgtga atacggcccc ccaaaag 327

<210> 6704

<211> 383

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-007-Q1-E1-D12

<400> 6704

gggtcgaccg gaggaagaga agaaaaagca gctatttcac ctgggtgtcgt aataaccact 60

gttttcgggt ttgaaggcat aagcgcagca gagatcttct ttcatttaag aagaagccac 120

cgtaaagaag aggaaacaag gcgtttaagg gacaccgact cccattatct tctccaggcc 180

tgctttggct aaatcgacgg aggcttagct tattatgttt cgggcgttta gctagcttag 240

agaataaaga aatctatctc taaaggggga gcggtacgac tatttttaggt tagaggaagg 300

ttgaagagag aatagctaaa atagccagtc gggtaggcaa gtgcgggtgg ctgtggtcaa 360

agtgaatatg tcctgtttcg gtt 383

<210> 6705

<211> 422

<212> DNA

<213> Triticum aestivum

<223> unsure at all n locations
<223> Clone ID: LIB104-007-Q1-E1-D4

<400> 6705

cggttcgacc ggatactaaa aaaagattga aaaggatcaa attttgtcat atcacgaaga 60
aatctatccc ttccatagca ataacaagaa ttaaaaaaaaa gggaatgaca aagcatctgg 120
gaataaacga ttaattttcta tcaataaacc tgctaaagca ccaaaccata gagtacttag 180
cacgggtgct acagagagat atgtttttat atcccgcatt gaaaatcctc cttccttggt 240
ggaatacata tatgatcata aactcttgcc caagattggt atgctatata taaaatgaac 300
catatcgacg aaattttcct atccctaaaa aagaaaaaga tgaccccttc ttcctatata 360
ttaccaagga aaagtaatcc ttcttttata ngcgaaatta tattggattt tatatgtata 420
ta 422

<210> 6706
<211> 335
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-007-Q1-E1-D9

<400> 6706

agctagataa aaaatcgctt ccatttttga agacgatggc tgagggttca ggggtggcctt 60
tgaatagata tgaaacactt gctttgctaa tcttttcttc gggtcttgca gtggatctat 120
ggttttggga gtttctcggt gaaagcagtc tgaattgggc atctttggct gggtcctgga 180
tcgatcaatt tagtgctcca ttttgacaaa gagtttacia aaccatttac tggtgcagtt 240
agtttcagat attagttgga gtgctgtcta tgcaaacttg tagataacaa tttattgaat 300
caacttgga tgagattagt gagaaagttg aagcc 335

<210> 6707
<211> 416
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-007-Q1-E1-E1

<400> 6707

gggtcgacgg gtctgccaag gtgacatcac caaggtactc accaagatgg tgcactggaa 60
 ccccgacctt gacttcgacg cctcgctgga cagcttgccg gaggggtgtgg acctcgcggc 120
 gctcagggag cgtatcaagc ccgatcatcag ccatatcggc ggaatccagt ggatagaggg 180
 ccagcaccga gattaggcac cctgtctcgc actgccgctg caggttcctg accaagacat 240
 ttttatcttt agttagaacc gcagcaacaa atgatgtaat ataactctgc agtacttttg 300
 agacaatgca tgttaatttc ctgtccgac ttcgctttgt acgttcaccc tacgctaata 360
 gggtaggctt gccggcgcgt aaaccacagg cggcaccttg aggatggatc cccaat 416

<210> 6708

<211> 337

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-007-Q1-E1-E10

<400> 6708

gtcgtagaac gtcacagtca tctacgcccg cgccaagcag tacgccgacg agtagtaggc 60
 ccacgacaat gagttgggtc agcttaagcg tgaagcccgg atgaaggggtg ggttctatgt 120
 cagtcttgaa gcgaacctgc tgtttgttgt cagattcaca cgtatcagtg ccatgcaccc 180
 aaatagcaaa aagatctttc agctgttgcg tttgtgacac atattcagtg gtgtgttcct 240
 gaacgttaac aagggcatca tcaacattca ccgcatggtc tatccatatg ttgcatatgg 300
 gtacccgaac ctgaatagtg tgaggggagtt tatctac 337

<210> 6709

<211> 275

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-007-Q1-E1-E11

<400> 6709

aacaaaaaaaa atagaaaaaa aaaaaaaaaa aaataaaaaa aaaaaaaaaa aaattaaaaa 60
 aaaaaagaaa aaaataaaaa aaaaacgggc ggcccaaaag attcaaactt aacttacctt 120
 taaagtcaag ttaaaacccc tcaaaaattt tcaccaaatt taaattaatg ggctttcttt 180
 taaaaagttc ttaacgggaa aaaccttggg ttaaccaaatt ttaacccctt tgaagaaaat 240

cccccttttcg caatttggcg taataacaaa aaggc

275

<210> 6710

<211> 421

<212> DNA

<213> Triticum aestivum

<223> unsure at all n locations

<223> Clone ID: LIB104-007-Q1-E1-E2

<400> 6710

ggtccagaaa atccgggtcg accggggcgc ggcaccagcc actgaagccg gggcgtctca 60

gccggctcca ggcgaggact tggaagccgc tctgccaggc ccgccgccag gaactccacc 120

tccgtctgcg atcaccagc aggagactcc agcttctccg gctgcggctc cagaagatga 180

tctgcctctg cctcctcccc ctccactgac ccagcatgag gaggatggaa cgccagaaga 240

tgatctgcct ctgcctcctc ctctccact gcccagcag gaggctggag cgccangttc 300

agcgccagag gcaggagccg tcgatgacaa gtgggcagga ggtggcgatg acaagtgggc 360

gggaggcccg gatgacaagt gggcttagtg gttgcttaag gcgtggaact gaactgaact 420

g 421

<210> 6711

<211> 379

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-007-Q1-E1-E9

<400> 6711

gtcaagaata tcggggccgac gcggagaaga agaagtccag cgagaacgtc aaggatcatc 60

acgcccgcgc caagcagtag gccgaggagt acgatgccca ggacaaggag ttgggttcagc 120

ttaagcgtga ggcccggatg aagggtgggt tctatgtcag tcctgaggct aagctgctgt 180

ttgttgtcag aatcagaggt atcaatgcc a tgcacccaaa gaccaagaag atcttgcagc 240

tgttgcgttt gagacagata ttcaatggag tgttcttgaa ggtaacaag gccaccatca 300

acatgctccg cagggtcgag ccatatgttg catatgggta cccgaacctg aagagtgtga 360

gggagttgat ctacaaaag 379

cgggtcgacc ggcaactgaa gctctcaagt agtctaagtg aagtgaaaga acttactgca 60
 taatagatac aaacttcaca gcaagatcag cacccaaagc caacaatctg aaacatattt 120
 tgtcacagat aagatatgtt gctgattgtc ttaatgatat aagtttacia tcagaagccg 180
 ttatacagaa aacaaacaag tattattgga gcctggatga tgacatcgaa ggaatttctg 240
 ctttgagcaa tgcaggccat gaagaacaac aactataaag acttgccaca aagaaattgt 300
 tctaaacatc caacgataca tgtgtctaac atagctcttt ctatctacat gccttgctca 360
 taatattgta aatgatcggt cgtaagctta ttagaaaaca tgtatcatca gcaaccatcc 420
 atccatcatc aattcaatac tt 442

<210> 6715
 <211> 426
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-007-Q1-E1-F3
 <400> 6715

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 tatgatagaa gactttaaaa ttctcttttg ggaaacaaag tgcaagtaag tgaataaaat 120
 ttcctttgtc ccaactgttt aagacaaaca aatgaaagct aaactcctct gagacctctt 180
 ttagacactt cctatggata cgtagtagaa acaatcataa ctttctacia caatatgtag 240
 aaagtgttac tttctctatt ctcatthaaga aacattagta acaccaattt tatttacact 300
 ttttttgaa atgtcattta cactttaatt agatgtatat gttccttttt tattgctaac 360
 cgggccgacc gatgggtgat gactagtaaa attcatthaag taaaattcgt tttgtcaaat 420
 caagaa 426

<210> 6716
 <211> 386
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-007-Q1-E1-F9
 <400> 6716

ggtcagaata cggggtcgac ggggatgaaa gatgccggcg ccgacatgcc actaagatcc 60

cataggctcg ttgtgcacgt ccctgctctt cctgagggca ccgctcgggc ctcaacatag 120
caggaacagc ggtactgctg gataggcgaa agagatggca ttttcgatct gaccagactc 180
atccttgaca ttctcatata taaagatctg cgggttgactc cagctccggc accattgatg 240
gtgtgagcta attttcgttg gtcaacgctg taggttctac agtgctaattg cgaaaatctg 300
agatctgaaa atgtcactgc ttcccgtgtg ataccctaata catccatgca gttgggtgact 360
taatcaatcc gatggaattt gctgct 386

<210> 6717
<211> 402
<212> DNA
<213> Triticum aestivum
<223> Clone ID: LIB104-007-Q1-E1-G1
<400> 6717

ggtcgagcta tccgggtcga ccggggacaa gacggcgctt tgggagccgg accccaagac 60
cggcgactac cggccggtga ccagcaccaa ggaggtggat ccggctgacc tgcgtgcaga 120
gatgctcaag cggaggttgc tgcagcagca atgatgcgcg tgctgcaaac acgctaccgg 180
cccataggtt cataccgtca tgtacaacaa aacgttaacg ggcgtgctaa actatattta 240
ctaggtgcc a tgcggacaa cgacttgta ggaattgct tcctgtaagt atgtaagtct 300
tcaacagaca cttacatatt tacttgttct acgcaaactg tccaaaattt ccagtggtt 360
tcgcacacca cgacaatatt tcagcacaaa aaaaaatgaa aa 402

<210> 6718
<211> 366
<212> DNA
<213> Triticum aestivum
<223> Clone ID: LIB104-007-Q1-E1-G10
<400> 6718

acgggggggat gcatcaaaag gcatcccttc tttcgtcttc gtctatcgg aactttactt 60
ggagcaatat ttttgctcgc cacatgatat gtgttttgct tggagcgtat tgtatgatct 120
tagtgcttgc tttttatatt accacaatca tccttgctgt acacaccttt tgggagaaac 180
ccacttgatt ggaatttatt agaatactct atgtgcttca gttatatctt tggagctaga 240

tagttttgct ctagtgttct acttatatct tttagagcac agaggtggct taattttgta 300
gaaattgttg atctctcatg cttcacttat attattttga gagtctctta gaacagcatg 360
gtgttt 366

<210> 6719
<211> 378
<212> DNA
<213> Triticum aestivum
<223> unsure at all n locations
<223> Clone ID: LIB104-007-Q1-E1-G11
<400> 6719

gggtcgaccg gaacactgaa gaagcanaga gaacactggc ccgctttcgt gagaattcaa 60
ggaacaaaat taccaaagga acggccaaaa aaaaaaaagg caattgccga aaaaattacc 120
aatttcaaaa ggctggttca aggtggcaac ccggtggcaa tgccaaattg gaataagtct 180
gagcaagaga tggaggatgc aggggtcact ccggttacta agagctggcc cccaggtgc 240
agaacttggg tctatgcgca tggggggacg ttggaccga agacaagcct agtttcgaag 300
aangcaagtc taaaangagc agaacaaaag ttacttgacg caatagaaga tgctcgaaag 360
ggggtgttca cgccaac 378

<210> 6720
<211> 375
<212> DNA
<213> Triticum aestivum
<223> Clone ID: LIB104-007-Q1-E1-G12
<400> 6720

gggccgaccg ggggtccaac tgtatgagtt catccctgga agacgtgatt cgtcagtttg 60
tccccgtgaa gggcgcttc ctgatgctaa gaaaggcgca ccacatctga gggacatctt 120
ttatcgaatg ggcttaacag acaaagatat tgtagcacta tctgggggcc atagtctggg 180
aaaggcgcat cctgaaaggc ctgggtttga cgggtgcatg actcgtgatc ctctgaagtt 240
tgacaactca tactttcttg agctactgaa aggggaatca gaggtcttc tgaagctccc 300
tactgataac gcattgttgg atgatgctga atttagacgc tatgtggagc tttatgcaaa 360

ggacgaggat gcttt

375

<210> 6721

<211> 425

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-007-Q1-E1-G2

<400> 6721

taaaatatca actacctgat catgcaaaaa ccattatgac attaatggaa cttgtcataa 60
taaatagaaac ggtgaaaatt tgcattggcaa tatatctcaa aatggctatg gaaatgccat 120
aataggtagc tatgggtggct gttttgaaga acgtaaataa tgggtgcatg ataccggcga 180
aagttgcgcg gtataataga ggctagcaaa gtggaaggat gagtgtgcgt atatccatgg 240
actcacatta gtcataaaga actcatatac ttattgcaaa agtctacttg cctcgaagc 300
aaagtactac tacgcatgct cctaagggaa gggttggtac gagttaacta tcgcgcgatc 360
ccgacctcca ctcataagga agacaatcaa aagagcaact catgcaacaa atttgtcaca 420
caact 425

<210> 6722

<211> 372

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-007-Q1-E1-G3

<400> 6722

ggtcgaccgg ggatccgact ccactgccgc ctatctttaa ctacatgttg ccgtgctgtc 60
ctgttttggg aacttgtgtt ggggtgttaa gccgtcgggtg ctttcttctgt cgctgttgaa 120
ctgcatcatt agtacttcgt ggaacaagta tctcgcttaa tttgttctgt cctgcccggg 180
cctgtctttg ctcttgggtga tcggatcata aaaaaacaaa aaacatttct gaaaagacac 240
aattaaaaga tatatgccaa atgatactaa caactatcat ggtactatga actaaaaatt 300
aggaagagaa cggatcaaat gtcaattaat acatgatcaa agggggcccc ctaaagggtc 360
aaaccttatt ta 372

<210> 6723

<211> . 426
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: LIB104-007-Q1-E1-G4

 <400> 6723

cgggtcgacc ggatatccaa tgtataatTT cccttcgtgc ttaccgaagg atgattgcta 60
 tgatgattgt tatgatcccg ttgattcttt tgaaatatcc ctttttgatg atgcttgcta 120
 tgcttgtggc caagatgtca atatgaatta tgcttatgga gatgaacttg ctatagttcc 180
 ttatgttaaa catgaaattg ttgctattgc acccacgcat gatagtccta ttatcttttt 240
 gaattctccc gactacacta tattggagaa gtttgccctt attaaggatt atattgatgg 300
 attgcgtttt actactacac atgatgattt tgatagatat aatatgcatg tgcttgctgc 360
 tcctacttgc aattattatg agagaggaac tacatccccg cctctccatg tttcccaata 420
 tgataa 426

<210> 6724
 <211> 420
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: LIB104-007-Q1-E1-G8

 <400> 6724

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 ccctaacgtg tacgcgagcc tccttgggtt tctgtggtct tccgtggcaa acaggtggca 120
 cctggagatg ccagacatta tagatggctc gatttcgatc atgtcaagga tcggccttgg 180
 gatcggaatg tttaacacgg gcctgttcat atgtctacag gacaagctcg tcgtgtgccg 240
 gactggacat accgtgttgg gcatggccat gaggttcgtc tctgctccgg gatccaccgc 300
 tgtcggagcg ctacttttgg gactgcgtgg tgaccttttg cgtgttgcca tcttacacgc 360
 tgcactgcct cagtctgtcg gagcatttat cttcgcgcta gagtatgacc tgcacgctga 420

<210> 6725
 <211> 379
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-007-Q1-E1-G9

<400> 6725

ggtcaagaat taccgggccc actatcacia tgaccggggt cttgtcgca atgatccgca 60
tctccatact cagcgaaaat agccgaacga aggtgtagtg cagcggatga aggttaaaca 120
tagcaaagat gtcacaaac cgcaggacga tcgtaccccc gatgtcgcca tccacaaagc 180
ccttgccctc tggcaccttg gccacgaaaa cggggtatgc cacatccttc tctctgagac 240
gccgcttctc caaagaaaga aactgtcgt gcagactcct cctcgagata tcctgcggtg 300
aaggtggccc gtctgagca cggatcgta tcggtgccgg ctggctcgca cccttcttag 360
tctttctttt gtgtgcctt 379

<210> 6726

<211> 391

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-007-Q1-E1-H1

<400> 6726

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gccgaacgga cggcacctcc gcgttcaaca cacgtgcagc ccgggtgacgt ctcccatgcc 120
ttgatccagc aaggggagag ggagagggtg gggaagactc cgtccagcag cagcacgacg 180
gcgtgggtgt ggtggaggag cgtggcaatc ctgcagggct tcgccaagca ccgcgggaga 240
ggaggaggga gagaggcagg gctatgcat ggagagggtc aaactcatgt gttggcagcc 300
ccaaagtcct caagtatata taggggagag ggaagggggg gccccccctt tagggtttcc 360
cacccaaggg gtgccgcagc cccaaaccca t 391

<210> 6727

<211> 367

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-007-Q1-E1-H11

<400> 6727

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gctgccccag acaagcatga ccacgtagta gtcttataat aaaaacacta ccgagttcag 120
 gtggggaacc ctctgtagg atctgaagt ctttacgcaa gtccatggat tagatcccaa 180
 gcatagactt ctcttccttg aacaagtcaa tcagtggctt ggtgtgctag ggacacatat 240
 agaatggagg tagcgagcct atcaaaccat accatacttc gcacatgcat gactgacttg 300
 agatggttcc agaggaggca acattgactt tctcgaattc acgacggcaa cttgcatcaa 360
 atgcaca 367

<210> 6728
 <211> 336
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-007-Q1-E1-H12

<400> 6728
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 tcggtggttc tagcctggca ttcacatctg ccattctgga cggtggcggt aacactacca 120
 gagtggacaa tggcaaagcg taccatgcat acacaacgga aaagaagccc gaacctgcgc 180
 attgatcaag gttgtctact tgtagcacia atcatgcaaa ccagctcggt gaatttttga 240
 gctgatgtgt gctgttatgt ctgttttgct gatgcaccta gttcctttgc aaagctgtag 300
 taacttgttt tgctcgaggg caatacaaca gacctg 336

<210> 6729
 <211> 344
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-007-Q1-E1-H2

<400> 6729
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 cttttctttg aaacactgaa aaaggcaaga aaacaacaat ttgggctggg cctccggtta 120
 ataggttagt cccaaaaata atataaaagt gtttaataaa gcccataaac atccaaaaca 180
 gataatataa tagcatgaat acttcataaa ttatagatac gttggagatg tatcactttc 240
 cttctgatta gattgctttt ccatctcttc tcaagtactt gtagcaciaa gacctgtttt 300

gaagcgttgt ttttctagtt ttgcttgcta gtaaccggct tgat

344

<210> 6730

<211> 372

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-007-Q1-E1-H3

<400> 6730

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tctcaaggac atctgctgga acggtccgtc agaggaaaag cttccatcag tatcggagtc 120
agtacctcca actccgtcct ccaagtcgac caaaagaaat gtcatttaag tgtgatatct 180
tccgagctgc aattacaatc tattctctc tctctttctt ccttcctcaa agagctgaga 240
ctttgctcac ttgagtatca agctttaggg ctctttgtta atcctttttg cagtttccct 300
tttgtggtag caattgtagt atatggattt cctgttttgc tcaccaatag aagcacaaaa 360
ggtgacagta ca 372

<210> 6731

<211> 439

<212> DNA

<213> Triticum aestivum

<223> unsure at all n locations

<223> Clone ID: LIB104-007-Q1-E1-H4

<400> 6731

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agcaacatca atcttagaac ataatggata ctagggatca aaccctacca aaactaactc 180
gattacatga taaatctcat ccaaccatc accgtccagc aagcctacga tggaattact 240
cacacacggc ggcgagcatc atgaaattgt tgatggagga aggttgatga tgacgatggc 300
gacggattcc cctctctgga gccccgaacg aactccagat cagccctctc aagagagatt 360
tgggcttggc ggcggctccg tgctcgtnaaa catgatgaat ccttctctct gatTTTTTTC 420
tccccgaacg tgaatatat 439

<210> 6732
 <211> 399
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-007-Q1-E1-H7

<400> 6732

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tgattagtgt acgattggat cgggggagtc acacaaacaa gatttcaagt gaccgaacaa 180
tagcacaagc aattaccata cgaactccac tttaactttg taacacaaac atatgcacaa 240
tatacaccca ttaacccgac agttcttgcg ccgacgcata agcaagacac aatacatact 300
cgtaaacgt gataccaaga gaacaagaaa ggtaatcac ttaaaaatcg aatagttgtg 360
gtggtgtcac cttaaagaac aaacggacaa aaatgaaag 399
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<210> 6733
 <211> 414
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-007-Q1-E1-H8

<400> 6733

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caciaagtac tatccccgct ttaacctgga agatacttca agttttaggg acttgatga 120
acatagcaaa aatgtcctta gaagattata ccatgactat tatttcgttc gccaaagaaa 180
tctttggcga caaaatgcac tgaagactct acctgttcta ttgaactggt cggatatggt 240
ggcatgtggg gaagatcttg gccttatccc tgcttggtt caccctgtta tgctagaact 300
cgggttgatt ggattgcgta tccagagaat gcctagtga ccaggcttgg aatttgatat 360
tccgtccaag tacagctata tgacggtttg tgctccctca tgatcatgatt gctc 414
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<210> 6734
 <211> 384
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-008-Q1-E1-A11

<400> 6734

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cttgtaaatt tgccaaagaa catgttcttg aaattggacc gattattctt gagatggaca 180
catatagata ccatggacac tctatgtcag atccaggcag cacttaccgc actagagatg 240
agattgcagg aataagacag gagcgtgatc cgattgagcg agtcagaaag ctattattga 300
cccatgactt ggcaacagcc caggagctca aggacatgga gaaggaaatc aggaatgaag 360
ttgacactgc aattgccaaa acaa 384

<210> 6735

<211> 126

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-008-Q1-E1-A2

<400> 6735

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aggacatatg ggaacttgac tattgacgtg gtttgacggt ccctttgttt cggtgcatat 120
tgggtc 126

<210> 6736

<211> 329

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-008-Q1-E1-A3

<400> 6736

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cttttccggt cacagatgat ctacgacgaa cctcatggca agtccggaca atctattgag 180
ttcggcccat tcggcaagct aatcagttag tggaagtgga tgctctggaa cgttaaactg 240
cgaccagaat agcttgcca cttcacgacc tgtttgatct cggaagtatt cggccgcac 300
gatagcactc gccgtcaa at ccggatatg 329

<210> 6737
 <211> 342
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-008-Q1-E1-A5

<400> 6737

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 tgatcttgtt actgcaccct gatcttctgg aaatctttga cttgttgaca cttgctgtga 180
 ttttatatgg ttgtaacgag aataatttct gatctgggta cgtgcacacg tttctgtgtg 240
 cagtacagaa ctccctctat atacatatac agcttgagtg taagaatata aacgcccaga 300
 aaaataaaat aaccacataa accaaaaaaa aatgcgtcgg ct 342

<210> 6738
 <211> 239
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-008-Q1-E1-A7

<400> 6738

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 ctgcgcgctg ctagtgtgat atggtaatgt acatatgagt tttaacatga tatattgtgg 180
 aactttttgt cgcaaaaaat aaaagcaaga tttcagattc aatgttcaat tctcaagat 239

<210> 6739
 <211> 380
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-008-Q1-E1-A8

<400> 6739

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tcttttttgt gggtagatct aatgtctcta cgtataatag ataccgagtg tatgctgggtg 180
gttcttttcca ttcttttgag gtcgtgggtg ccatgtaaat gtttgtggat tccttatgtt 240
tttgccctcct gcggtaaata aaagctaata cagattcgtg gtcgaaaaaa aaacttaaaa 300
attaaattca tagttaaaaa caataaaaaa aataacccaa atgaagaagt tcaacaaaaa 360
aaaaaagcgg ccgccccaaa 380

<210> 6740
<211> 385
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-008-Q1-E1-A9

<400> 6740

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gtacctaacc agaggtggcg atgctgacag ttagcagtct gcctatgctg gtggaagctg 120
cagtctaata cgacaagata tcagcacgcc gaccccgccg aaaggctaca tcacagcctt 180
ctgatccgat cgagatgacc aattcactca ccggcgcaag ccttcaggag atgcatcagg 240
atctaacgat tggcaaaccg ctcgccagaa cagatacggt tatatagttc ataacttcac 300
tcgcacgcat gaaatggact gcacgaatag cacattccag tgagtgttga cgtcccatgg 360
actgatatag cgggcagccg ggcaa 385

<210> 6741
<211> 382
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-008-Q1-E1-B10

<400> 6741

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catcctcggc cagcagggca ccgtctgggc ccagagcgcc gacttcccc agttcggcgc 120
cgccgagatc actgcatca tgaaggactt cgacgagccg gggcacctcg cccccaccgg 180
catgttcgtt gcaggtgcc agtacatggt catccagggt ggacctggcg ctgtcatccg 240
tggcaagaag gcctgtaggg agcaggaggc atcaccatca agaagaccgg gcaggcgctg 300

gtgggtggcg cctacgagga gcccatgacc cctgggcagt gcaacatggt ggtggagagg 360
ctcggcgact acctcgttga ac 382

<210> 6742
<211> 328
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-008-Q1-E1-B2

<400> 6742

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gcttcagtta tatcttttta gagagataac aggaattggt caatcacatg gttagtcata 120
aattcctaca taaacttgta gatcgttgaa tctgatatgt ttaatttctt gcaatagttt 180
tacgatataa aggtggtgat attagagtca tgccagtggg tggttgtgga ttgtacagac 240
acttgtgttg aggtttgcaa gtcccgtagc atgcacgtat ggtaaccgtt gtgtggcaaa 300
ttgaagcatg ggggtgttcct tgaatgtc 328

<210> 6743
<211> 365
<212> DNA
<213> Triticum aestivum

<223> unsure at all n locations
<223> Clone ID: LIB104-008-Q1-E1-B3

<400> 6743

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tttagttcat tgcaagaaca aggagacaat cctattataa tttattacat tgtaaaaaca 120
tcttggacca gtacgttggg atggcatggt gtgtaaacag ggaaaggat actaaggcga 180
gaggcataga tgcgaccaac gagccggcca aaaaaaacca ttgccaaccg tgcacgcgaa 240
gagcagtgat ttaattgatg taccaacaat cactcagata gaaatggaac atacacacac 300
aaatagatgt gaaacatgcy tcaccncaa aagtgccacc gaaatgaaaa aaagagcctt 360
gaaaa 365

<210> 6744

<211> 344
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: LIB104-008-Q1-E1-B5

 <400> 6744

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 agggggcggcg gccccgggct ctgagtgagt gaggctttgt gttgctttgc ttgttgtgaa 120
 ctgggctggg aggttgctgt atcttgtgtg tgccgaagc tttatgcttc caggatgtga 180
 tgggtccgagc gatgcggaaa cggctactgta actgcatcat atgtttatgg tgtcgatcgc 240
 cttgggtgat atcatcttcg ggggtgactc tataaacaat ggtgcttgag ctgtcatggc 300
 aaaagtaaaa cattgcgggtg taatgctgca tttcaaagc gggc 344

<210> 6745
 <211> 274
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: LIB104-008-Q1-E1-B6

 <400> 6745

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 ccattgtcgc accatgatat gctactgttg atactcgaac ctgagagcga aactgtgctg 180
 tgaatcctgt gaaaaaactt acataaagac cagtatagtt atgtgttggtg aagttttcaa 240
 gttatgggta gtccttttaa ggactatgga ataa 274

<210> 6746
 <211> 213
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: LIB104-008-Q1-E1-B9

 <400> 6746

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aagttgagtc cttgtgtgat ggtgcggatg taacacagca tgtgattcta atcatccaca 180
 tgcctcatca atcagtctgt acggataacc cac 213

<210> 6747
 <211> 315
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-008-Q1-E1-C1
 <400> 6747

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 aggtgtgcaa gattgatgat gtacctgcaa acggcttcgt taatttttagg aaggatggag 180
 tcgtgcatgg actggatcct aaccgactga catgaaaact tgaggctatt acacggattc 240
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<210> 6748
 <211> 373
 <212> DNA
 <213> Triticum aestivum
 <223> unsure at all n locations
 <223> Clone ID: LIB104-008-Q1-E1-C11
 <400> 6748

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 aagaaggacg gggagcacia ggagggcatg atggagaaga tcaaggacia gatcagcggc 120
 gacggccacg gcgacggcaa gaaggacggc gagcacaagg agaagaagga caagaagaag 180
 aagaaggaca agaagcacgg cgagggccac aaggacgacg acggccacgg cagcagcagc 240
 agcgacagcg acagcgactg agccagctcc ggccgcgtgc agtgcagggg agatgaacgc 300
 gtgggttaat ttggagcgtg tggtagcata tgtatgtaat gcttgacatg tctcatggat 360
 cntgtaatgt aat 373

<210> 6749
 <211> 271

<212> DNA
 <213> Triticum aestivum

 <223> unsure at all n locations
 <223> Clone ID: LIB104-008-Q1-E1-C2

 <400> 6749

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 gtccgggctg ctcaacatgg tggacggcct ctggtccagc agcggccatg agcggatcct 120
 catcttcacc accaaccaca gggaccggct cgaccggcg ctgctccggc ctggccggat 180
 ggacatgcac gtccacatgg gctactgtgg ctctgctgcc ttcagggagc tgcgggcaa 240
 ctaccacggc atccanngac acccgctctt c 271

<210> 6750
 <211> 364
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: LIB104-008-Q1-E1-C4

 <400> 6750

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 aggccgagca acctgctgct caatgccaaag tgtgaactca agattggaga ttttggttg 180
 gctaggacca ccaactgagac tgacttcatg atggagtatg ttgttactcg gtggtacagg 240
 gcaccggaac tcctgtctaa ctgccccgag tacactgcag caattgatat ccggtcagtg 300
 gggtgcatcc tccgtgagat tgctacgagg gaaccactgt ttcttgaaa agattaagtt 360
 caac 364

<210> 6751
 <211> 326
 <212> DNA
 <213> Triticum aestivum

 <223> unsure at all n locations
 <223> Clone ID: LIB104-008-Q1-E1-D1

 <400> 6751

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gtacctgatt ctcggtgcta ccatttgtgc cgcatttgca gacccgctcg ttgatgctgt 120
ccacaacttc tctaacgcca cacacatccc gtccttcttt gtctcggttca tcggcctccc 180
gctggcaacc aattccagcg aggetgtctc ggccatcatc ttcgccagca ggaagaagca 240
gaggacttgc tcccttactt tctcggaggt gtacggcggt gtgaccatga ncaacacacg 300
gtgcctgggc gtgtccttag cgtca 326

<210> 6752
<211> 142
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-008-Q1-E1-D2

<400> 6752

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cggataccta tagtgectac ttccacacag acgccattca tctacttcca cgctcactca 120
tcttgacgca tccttcaggt tc 142

<210> 6753
<211> 72
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-008-Q1-E1-D3

<400> 6753

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acgctcttgt tc 72

<210> 6754
<211> 296
<212> DNA
<213> Triticum aestivum

<223> unsure at all n locations
<223> Clone ID: LIB104-008-Q1-E1-D4

<400> 6754

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agaaggacgg ggagcacaag gagggcatga tggagaagat caaggacaag atcagcggcg 120
acggccacgg cgacggcaag aaggacggcg agcacaagga gaagaaggac aagaagaaga 180
agaaggacaa gaagcacggc gagggccaca aggacgacga cggccacngc agcagcagca 240
gcgacagcga cagcaactga accagctccc gccgcgtgca gtgcaaggga gatgaa 296

<210> 6755
<211> 317
<212> DNA
<213> Triticum aestivum
<223> Clone ID: LIB104-008-Q1-E1-D7
<400> 6755

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gtttttcttc ttcttcttct tcttcttctc cttggtaatt ccttgttgat tccttctggg 180
catgctatat tattgggtgc aacaacaaat tattgtcctt gttttgattt ccttcctgtc 240
aagttcatcc tttagtgcta gtactagtgg tacatcagtt tgatttagga aaaacacaag 300
cctctgctta acattaa 317

<210> 6756
<211> 427
<212> DNA
<213> Triticum aestivum
<223> Clone ID: LIB104-008-Q1-E1-D9
<400> 6756

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caggcctcac cgccccaccg tactcccatc gctggcctag ccatccctct actcaccac 120
acctgctgtt attctccggc gacggcagac gaaccagtaa accctcgtac agtcgtactc 180
ccctccacgt gggaacaac tgcagagtct tccctgcctc cgtgtcgttc ctttcctagg 240
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tgacatgcat ctgaagtgga ctgtacgtgg agaggccgac agctgggtcc acgaccgcac 360
gcaaggaaat gcctccttaa taagccgcaa aatatgaatc tctcaacctg acatcaggga 420

cccaccg

427

<210> 6757
<211> 155
<212> DNA
<213> Triticum aestivum

<223> unsure at all n locations
<223> Clone ID: LIB104-008-Q1-E1-E1

<400> 6757

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agacttctgt gactcgctcg ggtgcgaggc tggagggcgt ctgcagctcc agcaccgtgg 120
gggtgtgccca aggtgccgga gtttacttgg ggggt 155

<210> 6758
<211> 407
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-008-Q1-E1-E10

<400> 6758

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cccgaaatgc tggaaagaag aagtggcaat caggttggtg gcgctcttga ggtgcttgtg 120
tatgggctgt gcaggaagaa agaagcaaag gaagcggttca aagttctgaa ggacctgggtg 180
ttggaaaagg atgtgggttcc ttggcaaagt acctacaagt atttgatcca caagttgatc 240
cgccaagggc atcttaaaga agcatttgat gtgctaggtt taatgaaaag taatggattt 300
ccgccttata tcaatccatt tatcacacac attttgaaat ctggtactgt ggacgatgcc 360
ctgggtctgc taaacgcaat gtcttcagag gagttcccat caagaac 407

<210> 6759
<211> 279
<212> DNA
<213> Triticum aestivum

<223> unsure at all n locations
<223> Clone ID: LIB104-008-Q1-E1-E2

<400> 6759

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tgggtacaagg agtggcaaga gcctatagct tcggattcnc atggcgcccc caagataatc 180
caaggacacc aaaaattctt gtattatttg gggatgcnc gaaattatcn cctctttttc 240
gtcaacttcc atcggttaatt tactttggag ctataattt 279

<210> 6760
<211> 273
<212> DNA
<213> Triticum aestivum
<223> Clone ID: LIB104-008-Q1-E1-E3
<400> 6760

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agtacagggg tgtggataag ctctcggtttt cgctccgctt gaagttggac gtgaaagaca 120
cccgatgaga tagcctcatg tgccggcgag taccacgcac gttgggtgga gttgcataaa 180
agaaaggcaa tgtgctaaag gtcttctcta ttttttttaa tactggcctt cttctgtttt 240
tacattcttc cctagtttga taatgcttct ttt 273

<210> 6761
<211> 436
<212> DNA
<213> Triticum aestivum
<223> unsure at all n locations
<223> Clone ID: LIB104-008-Q1-E1-E4
<400> 6761

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ttgactgttc atcgcccccac ctgaaagaa gcgaaacgcy tatacaataa cctaacacag 120
ctctattatg agacggaatg ttctattatg ggtgaagtct tacccttgt ggaaaatgtg 180
acaaagtttg agcaaagtac agaagcaagg gaagagaaca gtgtggcccc tgaggaacct 240
attttggact catcagattc gcatgaagca atggccatac catctaataa tgcaacaaca 300
actctccatg aagctgcaaa agctggcaat gttgaacaaa ctatggaatt gctccagcaa 360
ggtttggatt cntgtatcaa agatgaaaga agaaagacac cttacctgct ggcttccgac 420

aaagaagtag aaatac

436

<210> 6762
<211> 315
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-008-Q1-E1-E5

<400> 6762

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cgccaagatg taccaggggtg cgggagctaa catggcgggt ggcattggacg aagacgatgc 180
acctccggct gctggcggcg ctggcccca gatcgaggag gtcgactaag cgagcacttg 240
taccagtctt accctaaagt tattccgttc gttatgttgg atgctactgc agtacgtggt 300
gttggtatgtg atgtg 315

<210> 6763
<211> 386
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-008-Q1-E1-E7

<400> 6763

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ataattggct tactcgtagt gtatcatgcc tgtctgtcat tatagcatgt tccgttcaag 180
tttatgtgta gctcacgttt cgacattttg cttggcaacc ctgtagtgca tcacttgcta 240
ctgcttttct atagatctgt tcgctgtgaa aaaacaaaaa tacaacaga aataaaaaaa 300
caaaaaaaaa aaaaaaaaaa taaaaaaatc caaaaaaaaa acaaaaaaaaa aataaaggaa 360
aaaaaaaaagg accacgtcaa gaaaaa 386

<210> 6764
<211> 337
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-008-Q1-E1-E8

<400> 6764

cgggtcgacg ggggtactgaa agacaagaag aagccgatca tcttctcgat ggctagggttg 60
gaccgtgtca agaatatgac tggcctggta gaaatgtatg ggcggaatcc tcgcctacag 120
gagctggtaa acctagtggg tgtctgtggg gaccatggaa aggtgtccaa ggactacgag 180
gagcaggcag agttcaagaa gatgtttgat cttattgaac agtacaacct gattggacac 240
atccgctgga tctccgctca gatgaatcgt gttcgcaatg gtgagctcta acgctacatc 300
tgccaaaatg aaggaacctt tgttcaacct gccttcc 337

<210> 6765

<211> 320

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-008-Q1-E1-F1

<400> 6765

gggtcgacgg gcctaaacac tgggtcaaag gtttctttca agaatcatga gagaacattc 60
aaggagtgga ttatttgga attagaacct tcagatttct tagaacttca cttggattta 120
tgtgaatata agcgtaaagag gtctagtggc aatgctacaa aatcactgca ggcgatataa 180
taacgttgta gatagacgga gactgaatca gttgacacta ctttgatgtc tatcgagcca 240
atgggacaac atagaataga agaaccggaa gcaggttatc tatcttcacg agcaagttgg 300
cgtctgtaaa ccttcaccgg 320

<210> 6766

<211> 370

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-008-Q1-E1-F10

<400> 6766

gacggggaac ctatgggtct gcacaattac ttttcaggtt ctttattttt attttatata 60
ttatttttac catttcaaaa aagaaatgta aggacgaaat agaactgccca taaacttta 120
gaaattgtta gtgtatttca aaaatgttca acatgttttt ggaaaatgtt tcacatgtgt 180

taaaaaatta taacgtgttt ttgaaaaatg tttgtcttgc gcaaaaaaat tttacaccag 240
gtatttttaa acaagttcaa cgtgtgtgaa aaagttcttt tgtaaattac cctttcactt 300
atacaaacat gggtgtcatt tttaatccta aattttacac attaatttca aatataggcg 360
aaaatattta 370

<210> 6767
<211> 308
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-008-Q1-E1-F2

<400> 6767

atctcgaagc atctcgggct cctcgcagaa caccttcccc gacatcgatt tcaccgagga 60
gggcgggata tccggcgccg ggcctagcag cccaagtcg ctccggtgcc ttgcagagcc 120
gaaagtggtc aggaagatga ggggtggcgc cgagaagact ccgattcagc acgtccttca 180
gccgccgaac atcgctcct tgctcgccat catcatcggc atgggtccccg tgctcaaggc 240
cttcgtgttt ggggctgatg cgccgctctc cctctttcac gacagtttgg agaatctccc 300
tgctgctg 308

<210> 6768
<211> 297
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-008-Q1-E1-F3

<400> 6768

ggtcgacgcg gaggacgacg tgggtgcgcc ggtgaacaag tgaagccgac gtatccatca 60
gcccattctca cgttcggggt cgtgtaatgc atgcatgcat gcacaaataa ttcgttcacg 120
ttcagggtct atgatctgga ctagtatttc acgtcgttgt ttcgaaatat cccaatgatt 180
agtaaactcc actacatcta cattctatta ccttttaatt gcgcgattat agcccaaagt 240
atgtttccac gagcacatat gatgctaatt attcataaat acaatcctat ttgcatg 297

<210> 6769
<211> 253

<212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-008-Q1-E1-F7

<400> 6769

gacgggggat ataacgaaca caatcggtcg ctagcttcta ccgttctata accaactact 60
 cttgctccaa tctggtatct gtctctatcc ggttccgtaa gactgctgga taccagatcc 120
 cccactccca gcgagtatcc tgggtctcatc tcacattcat ctcgcctaag ccgtcttctc 180
 tccatccact actgacgatt actgcgggac agcgtggcag caactcattc gatgtcgtcc 240
 ggcgctcatc ctc 253

<210> 6770
 <211> 374
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-008-Q1-E1-G1

<400> 6770

ggtcaaaaat atccggggtcg acgggggttct taagaactta atactctaga tgcattgctgg 60
 atagcgggttg atgtgtggag taatagtagt agatgcagaa tcgtttcggg ttacttgtcg 120
 tagacacgat gcctatatac aagatcatgc ctagatattc tcataattat gcacttctct 180
 atcaattgct caacagtaat ttgttcaccc accataatac ttatgctatc ttgagagaag 240
 tcactagtga aacctatggc cccgggggtct aatctccatt atattaatct cccgtcaaca 300
 agctatttat gtcgccgttt attttgcaat ctttactttc aatctatatc attaaaatac 360
 aaaaataatt aacc 374

<210> 6771
 <211> 298
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-008-Q1-E1-G12

<400> 6771

cgcattctcat ctaattcctg gatattgttg cgtctatggc gttctccatg gaatcacgag 60
 tcgtaagcag caagtaggaa tctatcatca aagggtctta cagagactga ttttaccaca 120

gggtgataga cggttattagt cagtggacag ggtctactaa gtggtattgg atcatgcttg 180
cataggtatc acattactct caacatagac agcatatgta ttgatactaa aatgcacagg 240
aacagtacgt gttaccttaa ccttgctgct gttattgaaa tattggatgt agtaaaga 298

<210> 6772
<211> 331
<212> DNA
<213> Triticum aestivum
<223> unsure at all n locations
<223> Clone ID: LIB104-008-Q1-E1-G2
<400> 6772

cgacatagct caagttcacc ggcacgcca actacctcgg attcaaggtc taaacgcgca 60
tgcatatgca tgcacgaac gcctgcccc tgtacatgag ataccgatcg aggtanacgt 120
aatgtgtgta cggaacgtgt gatgactgat gcttgcaaga tcagcanacc ttcgctgctc 180
cggtatcacc ttctgttctt ttctggagtt ctcttttccc tggtaaata ttaagtgtat 240
gttgtagatt gtgacattga ttaactggaa aatgtatcaa tcagatccca ataaactgcg 300
tcggctttgc aaaaaaaaaa cttccaaggg a 331

<210> 6773
<211> 324
<212> DNA
<213> Triticum aestivum
<223> Clone ID: LIB104-008-Q1-E1-G3
<400> 6773

gggtcgacgg gcctacctat tatggcattt ccatagtcac tccgagatat attgtcatgc 60
aactttccac cggtccgtta ttatgacacg cttcatcatt gtcattattgc ttgcatgac 120
atgtagttga catcgatatt gtggcaaagc caccgttcac aattcttcac acatgtcact 180
catgcatcat tgcacatccc ggtacaccgc cggaggcatt cacatagagt catattctaa 240
gtattgagtt gtaagtaaat taaagtgtga tgatcatcat tattagagca ttgttccagt 300
gaggaaagga tgatggggac tatg 324

<210> 6774

<211> 351
<212> DNA
<213> Triticum aestivum

<223> unsure at all n locations
<223> Clone ID: LIB104-008-Q1-E1-G5

<400> 6774

tacagtctag aattccccggg ccgacgggga tccggcagac ggaggcgaac gaggaggcga 60
agctgagctc gttccagcag gagatcgtgc agctggcggc ggtgctgaac ggcgaccacc 120
agctaagcag cctgcaggag aggatcaggg agaggatgaa cgtgagggaa ggcacctcct 180
acatgaggag cgccgtgcgg cgcttcttcg aggcgggcat gtcggccaag aggatgggccc 240
tcgccgacga cgagcagatc gtcaagatga ggcctcctt taccaccaga atgacctcct 300
cccctgcaga tcaagatgat agtccgtana gagcancgat gcatacatat a 351

<210> 6775
<211> 338
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-008-Q1-E1-G6

<400> 6775

ccgggtcgac gggaacatct aaattgtagc aatccaacct caaacggtcg aatctctgtg 60
cttaagtgtc atccctggat cggtaatgct gacacacaca gtacttgaag gatttataac 120
aaagtagcaa tcacacactt attacatcaa atgtctcaaa cgagaactta ttacaataaa 180
tatggcttaa gggcatctaa ataagataac agcggaaggc ttggaagata aagtgagtcc 240
atcaactcca acgcatagc tgagtgcacg acaaacgacc tagcgcaacc tactcttcgt 300
ctgaaaagtc tgcaacatga catgttggtta cccgaaaa 338

<210> 6776
<211> 275
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-008-Q1-E1-G8

<400> 6776

ccgggccgac ggggtccgtc aagaatggcg ggcctatgac cgagaccagc agatgaattc 60

cagccggtcg atgccttaca ttgttcgtga tcggaattca gaggaggact ctgttgctga 120
 gttgctgctg attacaattc agaagaggac actgttgcta gctgttggca tcacagagcc 180
 acaggcgtgc ctgcactgta tatcgatcatc ggctaggaat aggatggccg ggaaaatatc 240
 tggtgatacc ggagctaaaa tgctcccatg atacg 275

<210> 6777
 <211> 265
 <212> DNA
 <213> Triticum aestivum

<223> unsure at all n locations
 <223> Clone ID: LIB104-008-Q1-E1-H1

<400> 6777

gggtcgacgc gcaatggaag atgtangtgt gatatgtcaa gtagtggaca gataagccaa 60
 ccactggatg tggttttgag ggatttttgc agtgggggtt gtaggggtgct atgccgcgct 120
 gggtttggga tttgaaataa aacgaaggga gatgtgccac gctcttaaaa aaaaaaaaaa 180
 aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaagaa aaaaaaaaaa 240
 aaaaaaaaaa aaaaaaaagc ggccg 265

<210> 6778
 <211> 368
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-008-Q1-E1-H10

<400> 6778

gacgggtata ttacgcgacg tggaggtagt cgttgttggt gttgtaggag aggtgcgtta 60
 ggtgcagcgg gtggtggtgg tggaagacgc gcgagcaatt cattaaatct gttatcgagc 120
 tttgtttcga acgtcttctc aaggccagtg atcttctcca tggcctcttc aaaattgttc 180
 agcacatctt gcacctgttc agtcatcatt tgctgaaact tatcatgaag ctccctgttc 240
 gataaattct ccagtcfaat ctgcgtcggt tgtgatcctg gcatgggttag cagcaataga 300
 aacacacaag aatatgattc tacagactac gaacaagtgg tgggtggtggg tgtgatgagg 360
 acatgact 368

<210> 6779
 <211> 315
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-008-Q1-E1-H12

<400> 6779

gctaatacata gaaaacgcac caaagagaaa cacatatcat gtggtgaata aaaatataac 60
 ctcaagtaca gttaccgatg gacgaagacg aacgagggga tgcctcccgg ggcataccca 120
 agcttaggct tttcgatgtc ctttaatttt accttggggg gccttgggca tctccaagct 180
 taggctcttg ccattcctta ttccataatc catcaaactt ttacccaaaa cttgaaaact 240
 tcacaacaca aaactcaaca gaaaatctca tgagctccat taatataaga aaacaagcca 300
 ccacttaagg tactg 315

<210> 6780
 <211> 55
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-008-Q1-E1-H2

<400> 6780

gggtcgacgg cgaggagaat gatgaatggg ctgatatgcc gctttgtctc aacca 55

<210> 6781
 <211> 314
 <212> DNA
 <213> Triticum aestivum

<223> unsure at all n locations
 <223> Clone ID: LIB104-008-Q1-E1-H3

<400> 6781

gggtcgacgg gtccgccaac ggccagccga atcgacggag aaggaatggc ttcaaccagg 60
 ggagacgtac gatgggagtt cggccaatgc gaactgatac ggaggatagt gtacggcgaa 120
 ctgtctatgt ctcagacatt gatcaacatg tcaactgaaca gaagcttgct gaggttttct 180
 caaactgtgg tcaagtggta cattgccgta tctgtggtga ttcaaactca gtgatgcgtt 240
 tttgctttta tcgagttcgc cgatgatgtc ngtgcaagag cagctctaac gcttggtgga 300

acaattcttg gttt

314

<210> 6782
<211> 295
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-008-Q1-E1-H4

<400> 6782

cgaggagtgcg gagggccggcc gggagtcacg tggcattcaa ggtcttgaag gtagattccg 60
cgtctgcacc cggtttgcgg gctcaacgcg cgcgcgaccg gcttcgcgcg tgacagccac 120
catgtgcgcc tcctccgcac gggcggagac gacaatgaca cgctagtcc tcctcgccag 180
cgtgttgagg cacgcgctca tcctcctctt cgtacgctgc gtgcatagac gcggctccac 240
cagctgctcg cgtgcttggc agcgcggcgg catcgcgagg agggactgca gatga 295

<210> 6783
<211> 287
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-008-Q1-E1-H6

<400> 6783

tcgacgggga tgaatacaaa tatagaaaaa aagttctgta ataatgttgg aacaatgaaa 60
gtatttaatg attgtcttcc ttatgaatgg tggactgaga cgaacgatgg tcttttccta 120
aaaatctatc cccctagggg gtatgcgcgt actactttgt ttcaatgact aggagatttt 180
tggagttaag tatgtcagtt ctttatcact aatgtttagt ccacggatta tacgcactca 240
cactcttcca tcagtgcctat tctttcaagt tccgggcaag gtaaaac 287

<210> 6784
<211> 311
<212> DNA
<213> Triticum aestivum

<223> unsure at all n locations
<223> Clone ID: LIB104-008-Q1-E1-H7

<400> 6784

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 tgcgaactga tacggaggat agtgtacggc gaactgtcta tgtctcagac attgatcaac 120
 atgtcactga acagaagctt gctgaggttt tctcaaactg tggtaagtg gtagattgcc 180
 gtatctgtgg tgatccacac tcagtgatgc gtttttgctt ttatcgagtt cgccgatgat 240
 gtcggtgcac gagcagctct aacgcttggg tgaaccatt catgggtttt taccctgtca 300
 aaatttctgc c 311

<210> 6785
 <211> 429
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-009-Q1-E1-A1
 <400> 6785

gtaccggtca accattcacg ggccgacggg ctaccagaga gttagttacc catgggccgc 60
 aacatggcgc ttcccctgct cctggcgctg gcggccctag tggcgctcgt gccgtcgggt 120
 tccgtcgcga cggcggggac ggctggtgcg ttcgacagct ggttgtcggc gaaccagaaa 180
 gaattcgcga tcaaccaggc gttgtacgcy aagaaggcgg tgggtgacac cggcagcacc 240
 atcgacgagt ccctgtccaa ggcygaggat aacaagacca cctacgtggt ggacccaag 300
 ggcggtggtg actacaagac catcacggcc gcgatcgacg ccatcccga gggcaacacc 360
 ggtcgcgtaa tccctggacct gaaacccggc gaggaccgtg agaagatctt cctcaaactc 420
 agcaagccc 429

<210> 6786
 <211> 388
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-009-Q1-E1-A2
 <400> 6786

gaggggaggt aagcgagctg cgtccgccac gccgccaaact cgctctccgg cggctcgtc 60
 gteccggcgt ccttggccac tcccttgctt ctgctggtct tgggtgccat ggcggctcgc 120
 ggcagcaagg gacagaagac atcgaagaca cagcggcggg gagcaaaggc gaagacttac 180

gaaggaagga gaatgggatg gcggttccga gattggggaa ggcacggagg gtaaattgagc 240
agcgtgcccg cggttattcc tctttacggg gaaggcgcgg gccgcctctt ttcccattaa 300
ctgcgacatg acgcatgcgt gtgagaaccg cccacgcgt gacccccaca tcatgctcaa 360
ccctccacgt cgcgcgttca acgcggtt 388

<210> 6787
<211> 386
<212> DNA
<213> Triticum aestivum
<223> Clone ID: LIB104-009-Q1-E1-A3
<400> 6787

aaccatattt taatctctca taataattac atgtaggacc ataataaaat tcaacaatgt 60
agccatcata taaaatcttc tcttcatgat ccacatgcat aaaagtttta taatcttcca 120
aaatagtggg attaacatca aaccacttt cataaaaagt ttcataagat tgaacactct 180
ccaaatatgt gggattactt ttacctaaag ttgacgtctt tccaacccca ctttcaatat 240
taatgcaaac attattatca atagcatatt catcatgagg cataaacaat ttttcaagat 300
cataagaaac gtgatcactt caatcatgat cattgcaata agtagtggac atatcaaaat 360
tagcatcccc aagcttgggg ttttgc 386

<210> 6788
<211> 388
<212> DNA
<213> Triticum aestivum
<223> Clone ID: LIB104-009-Q1-E1-A7
<400> 6788

gtcccgggcc gacatgggag acatgctgat gatggacagg ttccgtcaat ggcaggccac 60
gcacaaccgg togtacctga gcgcggagga gaggtgcgt cgcttccggg tgtaccgcga 120
caacgtggag tacatcgacg ccaccaaccg gcgcggcgac ctacacctag agctcggcga 180
gaatgagttc gccgacctca ccaggagga gttcctagcc aggtacgcgt cgtcctacga 240
tggggtcggt gatgatactg gcatcacgtt gcctgtgggc ggtggcgacg ccgagctgtg 300
gtcgtccggc ggcgacaatg atagctcctt ggaggctccg cctcccagct gggactggag 360

atccaagggc gccgtcacac cgggtcaag

388

<210> 6789

<211> 385

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-009-Q1-E1-B1

<400> 6789

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gcgagggcca caaggacgac gaccaccaca acaccatcat cgcattccat tagcattcta 120
ccattttcct cggagagaag tagccagaaa cagcagcgcc atggccggca tcatgcacaa 180
gatcgaggag aagctccaca tgggtggcgg cagcagcgag cacaagaagg acgaggagca 240
caagaaggcg gaggagcaca agaagaagga cggggagcac aagaaggacg gcgagcacia 300
ggagggcatg atggagaaga tcaaggacaa gatcagcgcc gacggccacg gcgacggcaa 360
gaaggacggc gaccacaaag agaag 385

<210> 6790

<211> 418

<212> DNA

<213> Triticum aestivum

<223> unsure at all n locations

<223> Clone ID: LIB104-009-Q1-E1-B10

<400> 6790

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tgaagcggat cgagaacaag atcaaccgcc aggtcacctt cgccaagcgc atgaacggcc 120
tgctcaagaa ggcctacgag ctctccgtgc tgtgcgacgc cgaggtcgcg ctcatcgtct 180
tctccaaccg cggcaagctc tacgagttct gcagcaccca gagcatgacg aagacactcg 240
acaagtatca aaaatgcagt tatgcaggac ctgaaactac tgtgcagaac cgagaaaatg 300
agcaactgaa aaacagccgc aatgagtacc tgaaactaaa ggcacggggt gataatttac 360
agcgaacaca aaggaatttg cttggtgaag atcttgattc attangcata aaagagct 418

<210> 6791

<211> 300

<212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-009-Q1-E1-B11

<400> 6791

cggatctgca cagaggactc tgatggttgg tatagaaaat tttctgactg gggatcaagg 60
 ataatgttgc tactggagca gtttgtacaa tttttgacct tctttactga acattcgga 120
 atagggatgc caccctggat gcatctctag atctgtggat gtatgtgtgt aatcatcact 180
 gtatttaggg tttgaggcgc taatttagat gttcggtacc ttgatgttcg atggagaaca 240
 aattactatt tctgaaatgg cggatcaatac acagagccct tcagtgttaa caaagaatac 300

<210> 6792
 <211> 405
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-009-Q1-E1-B2

<400> 6792

cgggtcgacg cgggccacca caaggggacc tggtaccat tactactgca gttcccgcgt 60
 gggttgaaga tgtccaaggc gggtaccaag aagatgcaga agctcaacgc ctactgacca 120
 aactcaccac ttcgccggag gggtttgatg gggtttgtgt ccaggacggc atcatccgcc 180
 acaggggacg agtgtggctg ggagcaaatac tggttttgca aagacaggtc cttgaagcgt 240
 tgcacacagg cgctatcggt gggcactctg gtttcaatgc cacgtaccgg cgtgtgcgac 300
 atctcttcac ttggccgagc ctgaaacatc acgtgaagtt attcctcgaa gcgcgccaga 360
 cttgcaagca agccaagcca gaaaggattc gttaccggg attga 405

<210> 6793
 <211> 401
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-009-Q1-E1-B3

<400> 6793

gggtcgacgg gtgagcctac aagatctatc ttattattac ggcactcgtt aaatctatct 60
 tcgcttttta tgcctagcta ggggcgttaa acgatagtgc tagttgggag gcaacccaaa 120

ttttctttat gtttctagtt tttttctcc tgtttaggaa taaatcttgc atctactctc 180
 tatttagatg tgtttttatt ttttaattag tgtttggtcc aagtagaacc tataggataa 240
 cctacgatga tagttgattt gattctgctg aaaaatagaa actttgcgcg cacgaatata 300
 attttgtaa atcacaggaa cgtgcttttg agttgattct ttttctgct gttcaataga 360
 caaattgtcc atgacttcct attttggtag aagttttaga g 401

<210> 6794
 <211> 412
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-009-Q1-E1-B4
 <400> 6794

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 tcctatacat gcatatatcc atagtgtgat ataactacat gcataggaaa caataggtaa 120
 aggatgatca acatgtaact tgccttggtt ctggttcata aagtcacact cctgacaata 180
 gctcgcgtcg tactccggaa aatctacacg tttcacacaa ttcaacaaat caatcaccca 240
 aacacgaata gaacccaaac aaaaccaaca gcaagaaaac cattttttaa actcaacaac 300
 agaatcttaa cagcacctaa attgctctat ggtcacaatg caaaaggaat cactaaattt 360
 cgttaaacgg ttgggaagtt acggcctcgg aagatttgat taaaatccga ac 412

<210> 6795
 <211> 422
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-009-Q1-E1-B7
 <400> 6795

cccgggtcga cggggaattt gaatttaatt caaaatttac tgacaagatg aggagaatta 60
 agatacctct gcctccagtt gatgagaaaa agaaggtagt tgaagatggt gacaaggatc 120
 gaagatacgc aattgatgca tccattgttc gtattatgaa gagccggaaa gtcttggttc 180
 accagacact agtaatggag tgtgtggagc aacttggtcg catgttcaag cccgacttca 240
 aagcaataaa gaagcgcatt gaggatctta taaccagga ttacctgtag agggacaagg 300

agaaccagaa cgtctaccga tacttggtt gatcatctgt tctccatgct gggttcggta 360
acagtatgac taccaagcta ctgctattta aggatgctat attttgtgcc aaggcacaac 420
gc 422

<210> 6796
<211> 413
<212> DNA
<213> Triticum aestivum
<223> unsure at all n locations
<223> Clone ID: LIB104-009-Q1-E1-B9
<400> 6796

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ggatctgact ggagatgggt gccggcaggc tggagctcct tgcagcttcc atggcatact 120
cttgcaaga atagagaggg cgggagatac tagagtgaga aagaaaagag gaaccaaggg 180
aggaagggga caggaagaga agggagcga ggccggcctg ggggagctgg tcgccggcac 240
gacgtccggt tgagggagag gcggcgggat cgacgcgcgg gcgcagaagc tcatgtgcgt 300
gctcgcacac gagcgtgagg ctctttcctc ggttggttcc tagaggcagc gcaaggacga 360
ggtangggat tgcgcgaggg acttggcggc ggggctgggc tgaaactgct gct 413

<210> 6797
<211> 419
<212> DNA
<213> Triticum aestivum
<223> Clone ID: LIB104-009-Q1-E1-C10
<400> 6797

attcacgggt cgacggctac ttgaaatctc atttatggta gtgtgcatta atttgtaaga 60
tttaacttgc aaatcatgac attgctcgca accttttgga atgtatttgg atatcactga 120
atatcaatta tttcttcata aattaattat ttaaattcaa gacttgcttg cgctatagga 180
tcccttcaac atggtacaag ttgcatgata cctcgtgatc tcattgttta tcagttcatt 240
tcctgttaat tagttaaata tcttagttat cgctctacct taacagtacg ctgctacagc 300
ctacaaattg tgataatctg tttgttcac ataatacact tacacttctg aatcatcgct 360

tggtacaaat attttaaggc atgcgatcta attcttgatt gttttgcagc ttactaaaa 419

<210> 6798

<211> 306

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-009-Q1-E1-C12

<400> 6798

ggtcgaaaat tcacgggtcg acggcggggg tggcggcgcc gaagacatga acgacgatga 60
ttgatcgtag cagcctcata gcactcttca cttgaaacaa gggcgtcctt ttgacccccg 120
caacaatagc tctcttgtag ataggcactc tccgggtccag gatagttgag tggatgatag 180
ggtgttggtg taaatgtttg ctgtgggtaa aatgcgttca tctgatacta tggtttacac 240
atccctgttc ttggccaaag aaagaaagaa gacgacgatg aaatcgagcg gtttcgctg 300
tttttg 306

<210> 6799

<211> 393

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-009-Q1-E1-C2

<400> 6799

gggtcgacgc ggggcgacga tgtgaatgtg gacgaggcgg atagaaagct cttagatgat 60
gaaaagaaac ccgatatcac gaaacgacca cacgctccta ttgaagatga ggtggaatgc 120
aagaagccaa agatagcaga aggctcaagg tgccaaggag aagaacctga ggctggaggg 180
ataaagaatt cctcctgggt ctgatgacag gggaatgcag taaacaccag aagcatcaaa 240
actatgatct ggaacagtat cctgaataaa ctatctctg gattatgaat gaattctgaa 300
gcatggggct ataagtgaat tatgtaacat ggatttgtaa ctatgggtgga tgttaaagtt 360
aacgttctat cagtaaatcg tgaatgcgtg cgc 393

<210> 6800

<211> 413

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-009-Q1-E1-C4

<400> 6800

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acctggagaa gctgctggac ctggtggaga agagctgcca ccaaatacac aaggagacga 120
tgatccacaa ggcggtgctg aaagcctgaa gtgaacaatt ttgaattgaa tgtggccttg 180
tttaggttgt gtgcgtagta gactttctct atggatctga attcactttc actgtatggg 240
taaaactatt ctctctgctc aggtgggcat cgctgtttg ctttggaac tcgtgtgcga 300
accggtctcg aaatactgta accacaggga atgacgaatg ctatttgctg tatttttctg 360
aacattattt gtattctttg gcatcaactc ttgctgaacc tggatgtatc tgc 413

<210> 6801

<211> 412

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-009-Q1-E1-C8

<400> 6801

cggggggatga aaacccatt tttggaagat atgatggcaa ggaatcacac ctttgttgac 60
ggaagagtgc tgtctttgca ggatggagta gccatcgctc tgagaatcct gaactctggt 120
gattcaccgc ttaccatagg atcctgtatt ggtgtgaacg agccaactgc ctactagta 180
actcagagtt ttgttaaggc tatgtttgag cgagcaatgc cccatttgcg ttggtcatac 240
acttcccaga acatggagaa catgaagcgc atgtttcaca aggtccatgg catgcccac 300
tgctgtggtg ttgtacatac aacgcgcac agatttggat cacagaaccg tgagcatgtg 360
gagaatggaa gcagtgtcat gcaagccggt ccttgatccg ggaagggggg tc 412

<210> 6802

<211> 394

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-009-Q1-E1-C9

<400> 6802

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gggccaaata tatggcccat ttggccactc ggcccgaagc atctcggctt ccaatgatct 120
 cggcaagcgg tgcattgcag acaacagtga ttgggtgctc ctgaaaagag taaaatgcat 180
 ccgtgggcat cgaacttggt tcgaaagctc actttgggtca ttgtacttaa gaatacgatc 240
 aatatgggtca ttatatacga cttgggggtga ttatacagtc actgcctcac tgtatagctc 300
 tgtattttgc tctgttgact ggtcaaacat cacaattcac aacaccctct ctctatccta 360
 tgagggtccc acttgtcagt tgacctctgg cata 394

<210> 6803
 <211> 410
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-009-Q1-E1-D1

<400> 6803
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 ccttgataga tgtattgggt tttgcttgggt tttctgtaat taactgggca acaatcttct 120
 taattaatag aactggtaaa gcttttgccc gtgttttaaaa aaaaaaaaaa aaaaaaaaaa 180
 aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 240
 aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 300
 aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa ggcgcccccc aaaaggatca 360
 aaactttata gcggtctaac aaaataaaa acccttctaa aagagcccc 410

<210> 6804
 <211> 422
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-009-Q1-E1-D11

<400> 6804
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 tggatgatgc tgatgacata tacatgcggt catggactgg caccattatt ggtcctcaca 120
 atactgtcca tgagggtcgc atctaccagc tgaagctgtt ctgtgacaag gactaccccg 180
 agaaggcacc atctgttaga tttcattcaa gaatcaacat ggcttgtgtt aatcacgaga 240

ccggggcggt tgacccgaag aagttcagtg tgctggcgaa ctggcagcga gactacacta 300
 tggaacatgt cttgaccag ctgaagaaag atatggcggc gacgcagaac cgcaagctag 360
 tgcagcctcc agaagggaca ttcttctagc ggggtgtttt cctgcccata tccagttcca 420
 ac 422

<210> 6805
 <211> 410
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-009-Q1-E1-D2
 <400> 6805

gggtcgacgg gggaacccgg acgaatgcaa gttttgaaaa catgatgatg caatgcaa 60
 gatgacatga taagatgcaa cacgcaagta gaatgacaag gcaacaacag cgaataactg 120
 gaggacacct ggcacatcgg tctcggggcg ttacattcaa gtacaagttc cagaaggccg 180
 ttcttgccaa cttctaaacc catagagttt tcttttgaag caccacactg gagtctaggc 240
 aagaccatgg cagcccacat taccatggga cgcattggag aggtctacaa cagggagctt 300
 aaggacatta tctaccaagt atgtgggcgc cgagacgagc aatgggaagt aatcagcacc 360
 aggaaggata gatccattgt agctttcatc caggagttaa accagcacat 410

<210> 6806
 <211> 383
 <212> DNA
 <213> Triticum aestivum
 <223> unsure at all n locations
 <223> Clone ID: LIB104-009-Q1-E1-D4
 <400> 6806

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 tacgctccga taccctgttt gtttaaattg tttgttgta tcacctgtag cattagtaat 120
 gtttgcatgt tcatagatag acaactgtca gggttatatg anggacatcg tctttttaac 180
 ttatatatgt gttggaatca ttttgcttac atcaaagaaa ttttcagaat tttaaattat 240
 gttaacacaa taaaacaaat tgtaaggtc aatataaaaa atgttgatgg cattcaaaaa 300
 atgtttgtga catttaaaat gtttaacacc tattaaaaaa atggtcaaac acatatattt 360

gcaaattggt agtcttgat ttt

383

<210> 6807

<211> 423

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-009-Q1-E1-D9

<400> 6807

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cctccgtcgg ggttttaggt tcccgaacga tctttttgtg agagggatca tgttttacta 120
tgggttgga ttcacgact tggctccga gtccatcctc catattttcg cgtttattgt 180
tgtctgcgaa gccttcctcc gtgtcacccc ccacttcggc ctgtggctga agaccttcaa 240
tgtggagccg aagatgatcg gggggtgtca agcagagtgc ggcggggcgg ccgtaagcaa 300
gagggctgat gcctcgtggc ccgagggctc cttccaagag gagctcggct tgtggttcta 360
tatcacgct ccgaagagca gcaggtagaa gccgctgcct ccattccgct cgggaactcc 420
acg 423

<210> 6808

<211> 409

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-009-Q1-E1-E1

<400> 6808

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caacttttaa aggaaacact tcacgttttc taaaccatag ttgtgatccc aactgtaaac 120
tagaaaagtg gcaagttgag ggtgagacaa gagttggtgt ttttgctct cgtttcattg 180
aagttggaga gcccttaact tatgactaca ggtttgtgca ttttggcgag aagggttaagt 240
gccattgcgg agcaaagagt tgccaaggat acttgggcag ccaactaaag aatccaacac 300
agaacgtctc tgcggctgcg gcgcttgaga ataagttgct cgtgcaacag ggcggctgct 360
ctccttcaag ggtcaaaaca gagactcgcc tggtaccctg gaccaactg 409

<210> 6809
 <211> 380
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: LIB104-009-Q1-E1-E10

 <400> 6809

 ggtcgacggg gaccaggaac actcataaga aactacacta cacgtaaaca gttacaagaa 60
 cctacatata tgttcgttcc ccacgctgat gttgctcttg tgtattgctg ctgctgcccc 120
 tcttttttct cateccacag aggcaacgag tggctgttat gcattctatc gccttgacct 180
 tcgcaatcct gaattctgta aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa gtaaaataaa 240
 aaaaaaaaaa aaaaaataaa agaaaaaat aaaaaagaat aaaaaaaaaa aaataaaata 300
 aaatataaaa ttataattaa tttaattaa aattaaaatt aaattataat gaattaaaaa 360
 aaaaaagggg gcccccaaaa 380

<210> 6810
 <211> 430
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: LIB104-009-Q1-E1-E12

 <400> 6810

 ggtctaaatt cacgggtcga cgggagcgct tattgggagg caaccaatt ttattattat 60
 tctttctttt tgttcctgtt tagtaataaa taatttatct agcctctatt atggttgtgt 120
 tttttgtgtt taactagtgt ttgtgccaag tagaaccttt gggaagactt gggggaagtc 180
 ttgttgatct tgctgtaaaa aacagaaact ttagcgctca cgagattagc tacaactgtt 240
 tactggagag ttatatttag ttgattattt ttgaagatga ttaatagata aatccctcac 300
 gtccagaaat ttatttcaga attttttgag ttccataagt agacgtttga tatagattac 360
 tacagactgt tctgtttttg acagattctg ttttctatgt gttgtttgct tttttgatg 420
 aatctatgag 430

<210> 6811
 <211> 399
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-009-Q1-E1-E2

<400> 6811

cgacggggcc tccgtcttcc tcctctccgc ctaccaagag ttcagtgagt ttggaacgga 60
tggaggacca gcagcaaagt ctctgaagcc caagttcaac ctgtttgtca agcaggtgtc 120
cgccggcatt gggatggcgg tgccacacat tgacatcaag tctgtcattg ccttcaccat 180
gtttcttaaa gcctttggtg gtctcctttt catcatcagc agctcgttcg gagcgctcgt 240
actgcttggt tacctggcat tcataacccc tgctgtgtac gacttctaca actacgagat 300
ggaatcccag caattcgcca agctcttcac catgttttca cagaacctgg ccctcttcgg 360
cgcgctgctc ctcttcctgg gaatgaagaa ctccaaccc 399

<210> 6812

<211> 204

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-009-Q1-E1-E9

<400> 6812

ctccagttat attaccattc tcctcgggat taggtagaag atctgccagc ccctctgttc 60
atatcacgaa tatgtatggc tagataggat ctccctgccg caaacctcaa tttagtttaa 120
aactctcagt ctcttcagta ttaaagtgat tcctgtactt tagcgatggt acacattgca 180
tagttaactt taccatttcc tctt 204

<210> 6813

<211> 277

<212> DNA

<213> Triticum aestivum

<223> unsure at all n locations

<223> Clone ID: LIB104-009-Q1-E1-F10

<400> 6813

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atgcattcgc cgtgtcagca gccaggcgac gcggagggga tgaagggcag agagagaaca 120
tgtttctgtc tangtcatcc tgcttactta ngggaggtgg agggcccgac agaaggcatg 180

caaatattga agagggccga gactaatttg ttaacgggta tttttaaggt ttattgtctg 240
 tttatttcta ttttatttca actttctata catacat 277

<210> 6814
 <211> 401
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-009-Q1-E1-F2
 <400> 6814

gggtcgacgg gtctgcaaca ttcaaacttg tatgtatctt gcaaactctct atgtctccct 60
 cctacacttg atgacagatg gaattgaagc gtctcttgat gtgtttgggt ctcttgatgaa 120
 atctggattc ctttgccaag gcaagtgcac caatattgtc acaaaagatt ttcattggac 180
 ccgatgcact aggtataaca cctagatcgg atatgaactc cttcatccag actccttcat 240
 ttgctgcttc taaagaagct atgtactccg cttcacacgt taatcccacc acgacgtctc 300
 gcttggaact acaccaactg acagctccac cgttcaatat aaatacatat ccggattgtg 360
 acttagagtc atccggatta gtgtcaaagc ttgcatcgac g 401

<210> 6815
 <211> 409
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-009-Q1-E1-F4
 <400> 6815

cgggtcgagc cgatacgacc aaaaatattg catacatgca tatttgtcaa gtgatttcta 60
 atgcacacta ttcaataatc tacttatgtt atccagaaca taaatacttc acacactttt 120
 gtgttttgtc caattgcacg tgtatgggac atttgtacaa tccacatatt aagataacgg 180
 aaaatgacaa gtttacgttg tgtccaaaaa gtcctctcac gtcacttttg ggccatgata 240
 agatatagtc caagtctctc acgttttgga ttcagattcg gactgcatag acatacctga 300
 ctcataacac caacaacttt ttcataccga ctccgaattg ggtgattctt tttttgttgg 360
 aaactacatt tcgtgctctt tccaacccaa tttgattcac cttcaaatt 409

<210> 6816

<211> 358
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: LIB104-009-Q1-E1-G10

 <400> 6816

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 tctccggcga ccaagccgaa cgtatgattt tcagcagcag ttgatgaaca aaagctcgat 120
 gatgagttgg gcagtctaga tccagctgag ggaagcttgg gtcgccgggt cgacgggacg 180
 accaccgcca gcagcaggcg gcaaacctgc tgcatttat gctgtctctg aaccgcaggg 240
 atgggttctc atccttttga tctccgaaga tggagactaa gagttaaatt ttgcgtgtga 300
 attatcgctg gttttttgtt cttgtgtcgc gtaagggtga ccatagcctg tcgatatg 358

<210> 6817
 <211> 384
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: LIB104-009-Q1-E1-G2

 <400> 6817

 cgggtcgacc cgggggtttta tcccgaagca aaacggaaag gaaaaaagga agagttaccg 60
 agagacagag gagccagggg agggggggtta aatcaagaat aaattataac cgcacggcca 120
 agaacaaggg agggtaaata aatcgcccat cgcctcaccg cccgggaggg gatgatgtcc 180
 gaaagcgagg agcacgggtc gtccttgga aagattggcg acaagatcgg cgacaagatc 240
 catgagttca agaaggattc atcgtcctcg gactcggacg acgacaagaa gaagccgcat 300
 aaatccaaga agaagcacct gtttggcagg aagcatccgc tccacaacgt ccttggcggg 360
 ggcaaagctg ctgatcttgt gatg 384

<210> 6818
 <211> 418
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: LIB104-009-Q1-E1-G4

 <400> 6818

gggccgacgg gctcctccat tggacttctc gcattacatg gtgtttgaga aacggatgac 60
cgagacatag tctttcagaa gcgctagcgc cttacgaatg ggtagaccgt accaacctac 120
atccccata tctgctagtc taccactgta agagttcgca cgacttagtc aactatgcta 180
gagcccatag tagcttgtgg ctgcacacgg aagtttatag catgaataat ctcatgatcc 240
ccttgagcct ggggtggcgg ccaaagaaa acagacaatc gctggaatag ctaggtgcct 300
caatccaccc agatgtgtgt ttaggttgcc accttaaata aaccattaat taacaatctc 360
acaactgtca tggatacact cacccaatcc acgtctacta gcataacatg gcataata 418

<210> 6819
<211> 340
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-009-Q1-E1-G5

<400> 6819

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tttcataggt aagtatcaac aaaattgtaa ctgcacatgt actgccaaact gaatcaatac 120
agacattacc aggtacgac gataacgatg gtcgccgtag cctctgtgag ccatggacgg 180
caactcgagt cagctcatta tctacgactg tggtaacttct gcgcttggcg tcaacttctg 240
ggaagcggat ccgagaccgt ggaatactat gcccggaag aggtccgtg tacgactact 300
actgtggacc ggctccattg catcatacaa ggtcgtcgat 340

<210> 6820
<211> 418
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-009-Q1-E1-G8

<400> 6820

ccgggcccac gggcaacatg atatgtatct tgcttggagc gtcattttat tttgttagta 60
tttgcttgat tttatttata atagtgtttt gtatcttttag tttcaattaa aatgtcaagg 120
atagccttta ccatgcttat tttgctagta tacatgttgc tgtttgaaaa cagaaagtgt 180
accgttggtg caaaaattcc ctagaaaagt cagagaatgg tataatgttg aatctttttc 240

atattgagct ctgataaatc ttctacagca tagtattttt cttataattt ttcgagttag 300
ggaagtatga tgaatcttgc attctttaca gactatactg ttttggcaga ttgctgttat 360
gtttgcattg tttgcatatg tttgcttggt taatgattct atttgaggat aggagtat 418

<210> 6821
<211> 201
<212> DNA
<213> Triticum aestivum
<223> Clone ID: LIB104-009-Q1-E1-H10
<400> 6821

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gattatctat cagacaaatg caagagctgt gaagcctaca gactgcatca tctgggtcaa 120
caatttccca ttctcaccg taaaagaata cagtatggat tttctactga taagaatgga 180
ctcgggtcaaa gctgttttcc t 201

<210> 6822
<211> 413
<212> DNA
<213> Triticum aestivum
<223> Clone ID: LIB104-009-Q1-E1-H12
<400> 6822

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gagaaaatta tggacttgat tgcgggttacc acgccctaata taattgagca ttaaaccaaa 120
cacgtctaaa acctctcttg tgggtggaaat gcatgagaat gaagcgcacc ctgtaaacta 180
tgacggaggg aggagtagta tgaacgtgca aaaccaagta cgcgtatggc tagtcggtca 240
acgcacttcc tcttggcata tctactgacat gtgggaccgg agtgtgagca aaccggtcac 300
agttgacggc taaatggcca acccgccgtt ccttgagaga gatgaggagc aagaacacac 360
agacgggctc gcacggaggg caagatatat tcgagcatgg ttgattgata tca 413

<210> 6823
<211> 229
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-009-Q1-E1-H2

<400> 6823

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gaacatcaag cgttgctgaa tatgtgcctg cggttgctgt tgtatgtaat gaccacacat 120
tacaagtata tgagatcgtg caaagatggt gctgtttggg accttcaaag ttaatcgttt 180
gtcgcaatga ttcacgctta cgttccccta attgtgacat catagatct 229

<210> 6824

<211> 327

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-009-Q1-E1-H3

<400> 6824

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taccgcagaa cataaatgca gatcaccttt aaaaatgaag gactgactag acattggtat 120
tcatggtgaa ggagatccag acaagtcata ctcatgttaa actaacagca gtgaatgcac 180
atgacagtgg tgctctccaa ttggtgcttt ttaataagag gatgatgaat caacatgaaa 240
ctaactagat gggcccttcg cagaggggaag catgaatttg tacagggtgcc atagctcggg 300
tttgaataaa ggggtgaataa tattttg 327

<210> 6825

<211> 252

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-009-Q1-E1-H4

<400> 6825

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aacagggtgca agatgggctg aacaattttg aagaggccat ggagaagatc actggccttg 120
agaagacgtt cgaaacaaag ctcgataaca gatttaatga actgcttgcg cgtcttccaa 180
cggctgcacc tgccgcacct ctgcaacaac aactactaat aactccatgg tcgcaaacaa 240
acctccgctg aa 252

<210> 6826
 <211> 369
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: LIB104-009-Q1-E1-H6

 <400> 6826

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ccccgggtcga cggggatcca aagaggatgg ctgggaactg tgctgaactg aagatggctg   60
aagatcgatca gggtttgctt gagtttgctc catataaata aataaaaatg gcggtataaa  120
tcatttagaa cgtctctatt ttgtgcgagc aaaattagtg aacttacggg acttgtcatg  180
gaattgcttt gccttttggg aggcgactga atatcagtat ttgagataag gtaaaatggt  240
gctgacatga tatgtatata tcgagattct agcttaatct atagtataaa taaatgatta  300
gtgccatgtc aaaaaaaaaa aaaaaaaaaa aaaggtaaaa aaaaaattga aaaataaaat  360
ttcaatagt                                     369
  
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<210> 6827
 <211> 406
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: LIB104-010-Q1-E1-A10

 <400> 6827

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agtcccggtt cgacgaatac gcagatatga tgctactgtc aaaaacgtct actgggctga   60
tagtggtgac ctagttagca tcgcaagtga tacatcattc tacatcctga agtacaatag  120
agatgttggt gctgcctact tggaagggtg aaagcctgct gatgaggaag gcgctgaaga  180
tgcttttgag ttgcttcatg aggtcaatga gcgagtgcga actgggattt gggttggaga  240
ctgttttatt tacaacaact catcatggcg cctaaattat tgcgttggtg gtgagggtcac  300
cacaatgtat cacttggatc gccctatgta tttgatggga tatcttgcca atcaaagtcg  360
agtttgtctt attgacaagg agtttaatgt cattgggtat acatta                     406
  
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<210> 6828
 <211> 393
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-010-Q1-E1-A11

<400> 6828

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aacgccagaa acacgacgta gacgatctcc aggatgtaga cgaaggcgag cgtgagcagg 120
ggggccttca gctgcgcctt agctttcccg aggagctcgc tgaaggtagc gcgctgctcg 180
ccggagtacg tcaagacggt ggccaagagg aggaggatcc ggacggcgga gctgacgacg 240
accgcaaca gcaggtaacc cgcgcttacg agcaggagct ccttggtgtc atcctggatc 300
tcctgtacga gcttggcgta ctccaggctg ccggggtcgg tgccgtttag cgccttgacg 360
tcgagctgga tctcgtcggc gaggggctgg acg 393

<210> 6829

<211> 391

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-010-Q1-E1-A2

<400> 6829

cgggccgacg ggttacgaac tgtaacgaga gggctttcgg tacatgcagc tattaccgaa 60
aacgattatc gacccttggc accgagaaag caacgacatc atattttacct ttttattttt 120
gtgtgtatct ttgccactct cattttgtgt ctgatatttc atgactttta atgactcaat 180
tttcaaaatg acatgacttt tcatgacttg tgttttgggc tagattatta caaatctcaa 240
cttctaagaa ctataaagta aaagaatgaa taaaagacc cgtcgcaaca cggagaagca 300
tgtattcata aaccccgacc cctctcggcg catgtcaaca tcgtagaccg tccgggcctc 360
cgtaagggcg cacggccgga aaaccccatc t 391

<210> 6830

<211> 345

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-010-Q1-E1-A4

<400> 6830

gatcactatg gagaatctca ttacgaagaa aaactagaca agatgcagca caacgacgat 60

gataatgtcg actgcggcgt tggctctcgga tgtgtacaga ataattcctc gctatcaggt 120
 ggtaataacg caccggaacg gacgctgttc ttgatgcgcg gaatggcaag gcaaagcatt 180
 ctttcaccga gcaatggtga ttgacgactt gattacagac aagatagatt tggcacattc 240
 ttacctgtaa agataatttg ccaaataaag ccgtttataa gctttgccac tttgataatc 300
 tcttgtactg acacaatttg aaagaattcc tttgagatct aaaag 345

<210> 6831
 <211> 374
 <212> DNA
 <213> Triticum aestivum
 <223> unsure at all n locations
 <223> Clone ID: LIB104-010-Q1-E1-A5

<400> 6831
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 cacgcgcgag atcaagctcg ctgcgagcta gctgccacgt aganacaacc gttgaaccgc 120
 agcgtcgtcg agcgcgccatc ggagaccgtc atggacgaca ccgatggcca cgcgaccgct 180
 cgcaatccgc agtcaatct ccacgcctga actactagta cattccaaca ccatgaagct 240
 cgatcacgtg cgctcttcc tgcaccgctg ctactctcta gtcactcatc aaccaattt 300
 gtcacgtctt cacacttate tataagtacg gtatgcata aactttgcac agacgcatac 360
 tatttcgggg ttaa 374

<210> 6832
 <211> 399
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-010-Q1-E1-A6

<400> 6832
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 cagaaattcc gcagaaagaa tctctgatag tttggtggga agagtgattt ctactgaatc 120
 acttcaaagt tactttttct atacataggc tgtacatata tgatgtaact gaaaaacctc 180
 aggggagcca attccatgtg gctcctgaca gtgacacgaa cctggtctgt cacagtagcc 240
 cattgttgcc agcttcataa gattgacaat tatagatcaa tcaacaataa tgcataagg 300

catgatgtat tgttgccagc ttcataagat tgacaattat agatcaatca acaataatgc 360
atcaaggcat gatgtaacga gctaataaat cgagaattc 399

<210> 6833
<211> 370
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-010-Q1-E1-A7

<400> 6833

gacgggtgat gcaagtatct aatgtatggt gtgactgtag atggagcttc tgccgtggag 60
acccttaggg aggaacttgc ccgagccaag gaacaagcca ggagaagtga tgcggccgcc 120
ctaaaggcgg ccgaagactt aagagccgaa caggctactc atggcaagag caaagataaa 180
atagccaaga tggctgctga gctgaaagat gtcgccggcc gatatgagct tcttgaaaag 240
gaaagccaag tgagagcggc tgacctgaag agagccatgg aggcagacaa ggaaacccgt 300
tctaaaatca gagcgggagg aggagctccg tcaagccaga tatatcacgg ctgggaagcc 360
ctttttgttg 370

<210> 6834
<211> 392
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-010-Q1-E1-B1

<400> 6834

ggccgagacc ctggaaagcc tccaggaggt gcacctcaga gtcaatagcg cagcagatga 60
aataaccaac ttcatagtag aagatttgaa ggccatcaag aagccgaaga taatcgtgga 120
tcatgtcatc accagctgaa atgtggcatt ctattggagc acttttctta ctcatcatcc 180
atctttcccc tctgtttgtc gagattaccg attttatttg cgccattcgt acttcaataa 240
aaacaggatg ctgccgcatt cctgtacacc gcaagactcc tattgttttt gcttttgaaa 300
ttcgcgctgt atttcgttat gggcttgtaa gttggtatcg gaggagtga ttttaacttg 360
aaactgcaaa tgttgggtcaa agatgtttta at 392

<210> 6835
 <211> 422
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: LIB104-010-Q1-E1-B11

 <400> 6835

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 gaaggaacag cagcaagaag ctccagcgcc agctttcctt gcactattaa ttttagttgc 120
 ctaattcgtc catcatccat ccatcatttt gctgctgaag tgtattaatt cttggttctg 180
 cttactagat tccaccttat gcgctagctg ttggcgcaag tacctcaacc acctcaaaat 240
 ttagtagatt tgtaatatcg ttttcattag ccattagtct ctatgttgaa agagtctctg 300
 ttgaagaaat agctagctag gcctacaact tttcctatgt ctttttttgg aagtatttga 360
 tgtcttgatg ttttcttttg gaagtatttg atgtcttgat gttggaaaaa aaaagaagaa 420
 aa 422

<210> 6836
 <211> 399
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: LIB104-010-Q1-E1-B2

 <400> 6836

 gggccgacgg ggtccgtaat atgttataaa gaccgaacac cttagggagt gttcggcatc 60
 gtgagtttgg ccctatatgc atcagctccg aatgaggtct ttggtcaaat gttgggtttg 120
 cccggctccc acgttttggg accttacgtt ctgttatatc ggctaaggta gcactgggag 180
 aactactgcg attgtgccct gggtcatccg gatgagcacc tcagtagaga aagccgaaaa 240
 ctgactatcg tgatatagcg agagactggg taaccactcg atgactcatc agaatttttg 300
 ggattcctcc gcattaatga agggccgttt cccgatcatg aacgtatgtg ccccatattc 360
 ggacgagcgc agaagtacca agggctatat agtagcccc 399

<210> 6837
 <211> 374
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-010-Q1-E1-B3

<400> 6837

cgggccgacg ggctggctag gtcactcttc acattgcact gctcccagat ccatatcgac 60
atgccacgc tgtctgatga ggataaagat gttatgaaa aatgggggtgc tccaaacaag 120
attgacttcc tctctctttc ttatacaagg cacgcagaag atgtgcggca agcacgggag 180
ttcctctcta agtttagtga tcttagccaa actctgattt ttgccaaaat tgagaatgtg 240
gagggcttga accattttga tgagatcctg gaggaagcgg atggtatcat tctctcaaga 300
gggaaccttg gaattgatct tccacctgaa aagggtgtct tatttcagaa gtctgtcttg 360
cacaagtga acat 374

<210> 6838

<211> 395

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-010-Q1-E1-B5

<400> 6838

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cgagccctcc cagccttcca caactgagaa gaaacccaaa gggaaaaacg accatggtac 120
cgagaagaag tccaaaggca agaaggacgc ctctggatac acaggtgcgg agaagaaacg 180
aaaagcaaaa gtagattcgc ccaagaaggc tggggccaag aagaaaccag agatgctaaa 240
gaaggaagag cctaagaaga atgacaagcc caagtcgtca gcgccggcca caactgatgc 300
ttacgtcgca ccgaaggaag agacgaagaa gccagaagct gccacgcccg atacctacac 360
cgcaccaaag gtggaaccaa agaaggaaga accaa 395

<210> 6839

<211> 390

<212> DNA

<213> Triticum aestivum

<223> unsure at all n locations

<223> Clone ID: LIB104-010-Q1-E1-B8

<400> 6839

cccggggccga cgggacggga acacagaacg tggatcattg atcatctctg cgcgctccca 60
 agacactaac gggtttggat atgtgaactg agtaggcctc tggccttttc gcactaacca 120
 ccatgcggga ataagtatgg acaactcaagg tcgtacgatt ctccgaaagc tcttttgacg 180
 gcagtgggtg agcggcgcg cccagttgg acgggaacta gctgctcttg tattaggggg 240
 tgggtctgct ccaggttgcg tacataatgt gcaggtgtgc caagggcgat gggcccaaga 300
 ccctgagcg cttaggatgt agatcaacat gctggcctct ctgttgagcc taggtangac 360
 tacggcgtgt tgatcagccg aggtcgggca 390

<210> 6840
 <211> 376
 <212> DNA
 <213> Triticum aestivum
 <223> unsure at all n locations
 <223> Clone ID: LIB104-010-Q1-E1-C1
 <400> 6840

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 aataactctg gctccttcaa tgtgaagaga aggtgggatg atgatgttgt attcaagaac 120
 caagctcgtg gagagactaa gacaccgaaa cggttcatca acgacaccat cagaagtgat 180
 ttccaccgca agtttctgca taggtacatg aatgatgct gctgtatgct ttacagtata 240
 catgctggaa gaggagcctg tgatgtttct gaattctgaa gatcaatttg tatgacataa 300
 ctgtaacatc tatgttacct gtacgggtgat atatttacc tggttctaag agtaaagaan 360
 agaaccact gtttgc 376

<210> 6841
 <211> 425
 <212> DNA
 <213> Triticum aestivum
 <223> unsure at all n locations
 <223> Clone ID: LIB104-010-Q1-E1-C10
 <400> 6841

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 tgacccgat gcagtacact tttgtgtatg agcgtcgga ataggcccat cttgccgtcc 120

cggcacagag caggctcgag cttgcttaga ggagcaaatt accaacttct tctaccagcc 180
 tgtcagaagt ggtcgtcgct tagttcctat ggcagctagt catgagacga acaggaagat 240
 acaacacgta ggaaatgagc aaacttttgc tgggatgttc gtggcccat gtttggcagt 300
 cggtagctca gttcagactt cgctcggccc gaaatcatgc accgacagga actagttatg 360
 cggatagtat tgctgaacat gaagctgacg gcacctgcan agaatacaaa tctattttaa 420
 aacac 425

<210> 6842
 <211> 429
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-010-Q1-E1-C11

<400> 6842
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 ctatgacgga tccaatgcat tgcagtgtgc catatgtgga agactcgtgg agcttacgtt 120
 cacgatacaa agacatctag gcatttaca atttgggaaa gattacatca tggtcgacac 180
 atcagatcaa aagtcacaga cccatatgtc tcagagcaca tctgctacat atgggtgggtcc 240
 agatggggca tgtagatgt cttcaaacat taggaggaat ggtggagatg gagttacaat 300
 agtcggtagt aacagttcag acatcgcacg tggcaaagtc actcacagga tcgcacgtgg 360
 tattgggata ataggtcatg cactgactat aacagtgaac tgcgatggta aagttctcat 420
 catgcaaac 429

<210> 6843
 <211> 418
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-010-Q1-E1-C2

<400> 6843
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 aaacatatca ttgatgcctt gatgcaatct tatgatgaaa aacttaattt ggaagtttct 120
 atacctagaa aacttaatga tgagtgggaa cctactataa agattagaat taaagatcat 180

gagtgttttg ctttgtgtga tttgggtgct agtgtttcca cgattccgaa aactttatgt 240
gatatcttag gtttccatga ttttgatgat tgctctttaa atttgcacct tgcggatttt 300
ccaccattaa aaagccaatt ggaaggatca atgatgttct cattgttgca aatagaaatt 360
tggtgcccgt agattttatc gttcttgata tagattttta tccttcctgc cccaataa 418

<210> 6844
<211> 351
<212> DNA
<213> Triticum aestivum
<223> Clone ID: LIB104-010-Q1-E1-C3
<400> 6844

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atgccagctc tcctgcgcca ggacttcctg ccaccgtctg gatccaggta atcagattgg 120
cacaattcat gtgcgccatg aattagtaat gcgcaaccac tgcactcacg tctgatgagc 180
cgacaacgac gatgtggtgg taaattcttt ttgcagaccg cgaggccgct gaggcctgct 240
ccgggcagtg ctatgacggc tgcaagacca agactctgcc gaggcctctc cgcgcggggc 300
ccggcatgcc caccacgtta ggcccgtgct tcgccgacct tccttcaccc g 351

<210> 6845
<211> 413
<212> DNA
<213> Triticum aestivum
<223> Clone ID: LIB104-010-Q1-E1-C9
<400> 6845

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tttacaggat tttcattaat gcaggcgtag ggaacctaac cgtcccctgg gtacaactcc 120
ttggtgatag gtaagtttag agaccaggg ggaaacgccc ggtattctgg gcctttatat 180
agagatccta gtctcgtctt ctcccttgcc gctcgtctct tcctcaaccc cggccacccc 240
aagttccaac cctcgggtca caattgccac cagccttagt catgtccgga tccagccgctc 300
agggccggtg ggtggcttct tctgtcatgg atgaggatat tgcgaagctc cgcatagcga 360
ggtatctcac cccaaaaatc tttcatcagc ttccggcaca agggaaagtc ata 413

<210> 6846
 <211> 402
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-010-Q1-E1-D1

<400> 6846

gggccgacgg ggagacaagg ttgatagcat tggccgacta cctgctccca caaagccact 60
 tcccttcaca tcggaggaat tagagtttac tgccaagcgt gaagctgcta aagtgatcgc 120
 tgcataaggag ggagtgc aaa tcaactgaaga agcccatccg aacttttatt acttacataa 180
 gtcctgcacc gggcatttat aacaatcacc tgctcttccc tatagggtgca ttccttgtgg 240
 gatccttgtg tttccttgtc atttgtgcta cgcgggaatg acattgtctt cttctggtgg 300
 cagtagtacc tcctggtaag caccagggct ggcgggtaaa atatcctgta actgtctttt 360
 gagagattag ttcattgttt tcgttaatat aaactttttc cc 402

<210> 6847
 <211> 268
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-010-Q1-E1-D5

<400> 6847

acgggtcata aatagggact caggtctcaa gtgaggacta tagactggga agatgacgat 60
 gcatgacagt tatctctggg aatagagaat tgtactactt agtactttac cgatgcagcg 120
 ttcgtttctt ttttgtgggt agatctgatg tctcgacgta ctgagacata gcgagtgtct 180
 ggtggtgggt cattccattc ttttgggttc gtagttgcca tgtacatgtt ggttgatcga 240
 ttccttaggt ttttgcgtcc tgcggtaa 268

<210> 6848
 <211> 419
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-010-Q1-E1-D9

<400> 6848

ttccccggggc gacggggcga aagatgggga atatgccggt gcggatgaag gcggtggtgt 60
acgcgctgtc gccgttccag cagcaggtga tgccgggect gtggaaggac atcaccacca 120
agatccacca caaggtctcc gagaactgga tctccgccac gtcctcatc acccccgtcg 180
tcggcaccta ccagtatgcg atgtggtaca aggagcagga gaagctgtcc cacagatact 240
aaaggtggag ctttctccaa tattgcagca gtgggaattt ccatgttcta taatccacca 300
aaagtgattt aacattttca gaatcacttc tagttgtacc cttttgctct ttccgttgca 360
tatgcaatgc agcaagtgtg acttgcaaac ctattttgag gcctcaaag ttgagttgt 419

<210> 6849
<211> 413
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-010-Q1-E1-E1

<400> 6849

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tgtaatgata atttgcataa aaattattca cgcatacttc tattttaaaa atattcatgt 120
aattaaaaaa tagttcactt ttttttaatg aaaaatgac gtgcaattca aaataatatt 180
cacatathtt aaaaaaatct tcttgtaatt tacaaagttg atcgtgtatt tttttcaa 240
tttcatgtca ttttaaaatg tttacttata attccaaaat gttgacgtat tttcaaaagt 300
gctaatacatt ttttacaaaa ttatactatg ttttgaacaa ttttcacaca tcattttaag 360
gtttatgtaa ctgaggaaac atgaaaattg gttatttaat ttaatacaac aat 413

<210> 6850
<211> 375
<212> DNA
<213> Triticum aestivum

<223> unsure at all n locations
<223> Clone ID: LIB104-010-Q1-E1-E10

<400> 6850

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tcatgtgagt cgtggccctt gcactctgact caagatctgc gtcagtggc gacagacagt 120
ctgaggcaca tacatcactt cggttcacact gaattgagtt cttgggactc gagctgtctt 180

caacagcttc atcagcactt acatgtattg ctcggtctgc tcacgttcaa tgtatacgca 240
gcatgcaact tctggggctg actgagaggc anatccctca cgtacatcag tttcaggtca 300
catagttttt gagtaccatc agatatccat tcgatcacc atgctatcac atcttcagag 360
tttccggtga tctgc 375

<210> 6851
<211> 395
<212> DNA
<213> Triticum aestivum

<223> unsure at all n locations
<223> Clone ID: LIB104-010-Q1-E1-E11

<400> 6851

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caatggcgca agtggcttcc aacagctaaa ttttggtatg acaccactca tcaactctcc 120
ttgaatactt ctccattcaa agctctctat ggtcaagaac caaacctcgg tggcctgccc 180
accttatctc tgaacctgcc agacaacaag gatgcagact tggactgggc aacacacaat 240
gacaggctac gtgctcaact tgcccaggca caaaacagat gcaaacagaa ggctgatcgg 300
aacaggacag agcattcttt caatgtcggg gatcaagttt tgctcanatt acagccctat 360
gctcagtcca tcgtggccaa tcgcccctgc caaaa 395

<210> 6852
<211> 399
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-010-Q1-E1-E12

<400> 6852

gtcccgggtc gacggggatt tcaaaccgcc acccaaggag cctgataggc ccgtggatga 60
cgatgagctc ttaactatat ccacagtga gcggaatta gtgaaccgg gggatggcaa 120
acatgcagat ggggaagttc gcaagagaca aaagattgaa acaaggatta cttgtgccaa 180
gatttctgct ttgactaatc tggctagcaa acacaaggat acacttgct caagctcgcc 240
aagttgcgag gccaatggtg ttttggggga gcatgctaca cattctgatg agcatcaaca 300

ttccacagac actgcagaaa cctcacggca agttggcggg gattgtatca aagcaatggg 360
cagtttgtct agtgagaagg ctgtaaatac caccaaaac 399

<210> 6853
<211> 391
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-010-Q1-E1-E7

<400> 6853

gggtcgacgg gaagcatctc gctgtctgcg ctgacggatg cgctgcggac gctggggtcg 60
acctccgagg acgagggtgca gcgcatgatg gcggagatcg acaccgatgg tgacggcttc 120
atcgacttca gcgagttcat ctcttctgt aacgccaacc cggggctcat gaaggacgtc 180
gccaaaggtct tctgaatcag ttcatttcac ctacgcccgtc cgatccagga gccgatccat 240
ctacgtacgg ctctgtatat caatttcatt caactaccta ctccgggtccc gatccagcct 300
cagcttcacc tgaggccggc cctaattttg tttgatcaat ttttttgcta ctagtagtaa 360
ctagtgatga tcaactgttg accatttatt t 391

<210> 6854
<211> 393
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-010-Q1-E1-F1

<400> 6854

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tatgaaaatc gatgaagaag ggaggataat tgaattcgca gagaaaccaa aaggagaaca 180
gttgaaagct atgatggttg atacgaccat acttggcctt gatgatgcga gggcaaagga 240
aatgccttat attgctagca tgggtatcta tgttattagc aaacatgtga tgcttcagct 300
tctccgtgag caatttcctg gagctaata ctttggaagt gaggttattc ctggtgcaac 360
tagcactggc atgagggtac aagcatacct ata 393

<210> 6855

<211> 405
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: LIB104-010-Q1-E1-F10

 <400> 6855

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gacacaacaa tatagttagg acatatatat agtgcaggca atatgaacga gatggggtag 180
aaattaataa atcacttaca gaacgtagca actgatgata gatttatcga gctcgcgcag 240
attgaaaagc tggaacaatt cactcagttc aatttgtaca tagtaatgtt tgaagtgatg 300
ctcatgtcca acttccgcat aaatatattc tttggcgttt ttatttttta tgtaaccctt 360
gtaccatttc agcagacctt tcatttgtgg aggtagattc ttttc 405
  
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<210> 6856
 <211> 407
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: LIB104-010-Q1-E1-F9

 <400> 6856

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tgaacccgac gcactaccgg gagccaaggt ttacaccaa ggtgtttaag gaatgccact 180
cctatgacca agatgggaat tcctttgagc tttctctggt aacttccaag tgcattggag 240
cttatgtgaa gagcaagaag aaccagaacc agatatgttg gctatgggag aaggtcaagt 300
gcacagaaga caaaggcttt cagagattcc tggacaatgt gcagtacaaa tccactggaa 360
tcctgcgtta tgagcgcgtg tttggggagg gttatgttag caccggt 407
  
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<210> 6857
 <211> 404
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: LIB104-010-Q1-E1-G1

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 cggatgcgcg cgggacgtgt gggtcgcact ggtgtagtcg ggctcgtcgg gctcgtcggg 300
 tgcgcgcggg atgtgcggga tggaccgccc tggcgagtgt gcatgctggt gaaaatgggc 360
 accggttcgt ggccgtgccc ag 382

<210> 6860
 <211> 374
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-010-Q1-E1-G4
 <400> 6860

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 aggtgaaata gtatatcagg agaaaccttg tgcacgcgga gttactacga acatctagta 180
 tcaagaagaa gcggtcaagt agtgtcatct gtgggatgaa taccatgcaa gcagagacgt 240
 aagatttgca cgaataaggg aagaggagta ccttcttcgg ttgtcgggtg ggtcacctcc 300
 acatgtcgcg ccgatcttct tctttttatc ggggaaaccg atgttctgga tgggtgcaagc 360
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<210> 6861
 <211> 299
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-010-Q1-E1-G6
 <400> 6861

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 cgtcacataa tattaccaga aaatccatga tcagcccaat ggagtactac aatctcttat 180
 aaaccgcaaa cattctgctt tgctcgtcaa tcagattaaa ataagttccc aatgaccgtg 240
 ggatgttctg aatgtggggg agaggtatat ccaactgctat catctatcta gccaacact 299

<210> 6862

<211> 419
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: LIB104-010-Q1-E1-H10

 <400> 6862

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aaaactggtg gcgatatgac atcataggag ctcaggaaaa aaaaatagag tattgagaaa 180
ggttcatttt tttgatttgg agcactaatt ttgttttttc tgtcccgagc tcctcccatg 240
tcacattgcc atgaaacttt gcacgcacac agaaaacttg ttcattgtttg atgtatagaa 300
tttttagatt ttttgctggt ttattttatt tttagatatg atcgtgtcta gctatggatt 360
ttcactacaa aaccctagtg gataagattt ccctattgta tactctaggg gcaatgccc 419
  
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<210> 6863
 <211> 369
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: LIB104-010-Q1-E1-H2

 <400> 6863

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ggtgcacgtc aacttctacc gcaactatgg taagacattc aagaaaccaa ggcgtcctta 120
tgagaaggag cgtcttgatg cagaactaaa gctggtcggt gaatatggac tgaggtgcaa 180
gcgtgagctc tggagggttc agtatgcact gagcaggatt cgtaatgctg caagacactt 240
gctcacactg gatgagaaaa atccccgccg tatctttgag ggcgcggccc ttctccgtcg 300
catgaaccgc tatggtctcc ttgctgaggg ccaggataag cttgattacg tccttgccct 360
gactgctga 369
  
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<210> 6864
 <211> 367
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: LIB104-010-Q1-E1-H3

<400> 6864

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aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa attaaaaaaaa aaaattaaaa 120

aattaaaaaaaa aaaaataaaa aaaaaaaaaa aaacggggccg ctcaaaaggt tcaaagctaa 180

cttaaccttg aatgcaactt aaaatctctt caaaagtgtc accaaattta atttaagggg 240

ccttcttttta aaaacttcat aacgggaaaa accctggggt taccaaattt aaccctttta 300

aaaaaaatcc ccttttccca atttggttta aaaccaaaaa ggcctaaca atttgccttt 360

ccaaaaa 367

<210> 6865

<211> 341

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-010-Q1-E1-H6

<400> 6865

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ccatgggtgca cgtcaacttc gaccgcacct atgggaacac attcaggata ccaaggtttc 120

cctattacaa ggaccgtctt gatgcagaac taaagctggg cagtgaatat ggactgaggt 180

gcacgcgtga gctctgcaag gttcagtatg cagtgagcat gactcgtagt gctgcatgac 240

acttgctcat actggatcag aaaaatcccc gccgtatctt tgagggcgcg ggccttctcc 300

gttcgcatga accgctatgg tccccttgct gagggccagg a 341

<210> 6866

<211> 372

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-010-Q1-E1-H8

<400> 6866

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cctacatctg ctagtctacc ctgtaagagt tcgcacgact taatcaacta taccagagcc 180

cataatgggtt tgtggctgca cacggaagtt tctagtttga aaaatctcat gatccctttg 240
 agcctgggtg gcggtccaaa agaaaacagg caagtcctgg attaccagg tgcctagaca 300
 ggcaatccta gaataaccag gtgcctcaaa tccaccaga tgtgtgttta agttgccacc 360
 .ttaagtaaac ca 372

<210> 6867
 <211> 393
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-011-Q1-E1-A3
 <400> 6867

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 aatctttgcg agtatgaaaa agatgatcaa cacgggaaag ttgcgtgttt acagcagctt 180
 tcgatcggat agatcacttg ctcaattccg gtgagtggat gtacagctag gatcagtga 240
 tagagatata cgagaaagca atcgcagtgt atcaacacag tgaagttcat ggtttcatac 300
 cgaggagttc aggtacttca cgcgatgcat ttttggcgaa tcagttttgc gataaacgca 360
 taacgaatga tctcgccatt tttaaaaata cgt 393

<210> 6868
 <211> 395
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-011-Q1-E1-A5
 <400> 6868

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 atgtcagcgt tgagtttcat cactgggacg gtagcaacta ctgacatttg ggaatcgtag 180
 acttggaact agtgcaaatg ataaattaga tggccccgca gactttctga atgtcgagca 240
 cgtggaatat tataaggtgg aatgcctaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 300
 aaaaaaaaaa aacaaaagaa aaaaaaaaaa aaaaaaacca gacaaccaaa gaatcaaaaa 360

aaacagcaca aaaaaaaagc ggcccccccta aaggt

395

<210> 6869

<211> 384

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-011-Q1-E1-A7

<400> 6869

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ggaagggcgc cagcatcatc cgctacaagc aatctagcca caggtcaaaa ccaaagatag 120

atgcatgttg agttaattgt aaaatcttgt catccgcatg ttggtgtcag caaggttatt 180

gttgcgtttc ttgggaatgt aagattagct gtgtgtttat gttgtagttg tgagatgatt 240

acccttgctc ctatgagtga tgatcttggt atagggataa agttcataag aaggttcgcc 300

ttaggttttg ggcagtttaa acggaatagc cggaccctgt aggtatcttg atgcataatg 360

atgtaaatca gttcatggtt ttgt 384

<210> 6870

<211> 337

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-011-Q1-E1-A8

<400> 6870

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ggaagggcgc cagcatcatc cgctacaagc aatctagcca caggtcaaaa tcaaagatag 120

atgcatgttg agttaattgt aaaatcttgt catccgcatg ttggtgtcag caaagttatt 180

gttgcgtttc ttgggaatgt cagattagct gtgtgtttat gttgtagttg tgagatgatt 240

acccttgctc ctatgagtga tgatcttggt atacggataa agttcagaag aacggtcgcc 300

ctacgttttg ggcagtttaa accggataac cggaccc 337

<210> 6871

<211> 389

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-011-Q1-E1-A9

<400> 6871

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caaccggaag tacctgagca cggaggagag gctgcgctgc ttccaggtgt accgcgacaa 120
cgtggagtac atcgaggcca ccaaccggcg cggcgacctc acctacgagc tcggcgagaa 180
tgagtctgcc gacctacccc aggaggagtt cctggctagg tacgcgctgt cctacgacgc 240
tgccggtgat gatacaggca ttacgttgcc tgtgggcggc ggcgacgccg agctgtggtc 300
gtccggcggc gacgatggta gctccttgga ggctccgcct ccagctggg actggagatc 360
caagggcgcc gtcacaccgg tcaagtccc 389

<210> 6872

<211> 414

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-011-Q1-E1-B1

<400> 6872

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tctgaaagga ggtgataaag ccaagcttga ggaagcggtc aatcagttga tggcgatggc 120
gatggtgacg tcgcttgctg gtaagatact tgatgctccg gctggagccg acaggggtgcg 180
tgagactggt gatcaaggag tcttgtgtgt tgctgatgcc tgacgctgtg ctgtagtttt 240
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ctctaagtgt gtggttgacg gtggtagcag gttttggccc cgtgggagtg cttcgatgcc 360
gatcactcag agcgtgtttt ggccaacttg ctgcctctct tttccagttt gttg 414

<210> 6873

<211> 403

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-011-Q1-E1-B3

<400> 6873

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tgacagcatt ctaacctgtg atgtacccaa ggatgtggtc ggcaacatgg gcctttggac 120
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tgtatatata gacaaaggaa taagtattca ggacatcaac aagtgccttg gtctgggtgcc 240
tctagaattg agcagtagcg atgtcagtct atgggttatgt ctagcttaaa tggtcagggtg 300
actgaggtct tttgcaatag acctctgtct tgtgccccca gactatatta tatctatata 360
tgagaccagt atgtgatggg gaactgctta ttttgtattc atg 403

<210> 6874
<211> 432
<212> DNA
<213> Triticum aestivum

<223> unsure at all n locations
<223> Clone ID: LIB104-011-Q1-E1-B4

<400> 6874

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agacatcaaa catcttgcta gacgcggatt ataatgctaa gctttcagac tttggcctag 180
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ggtttgggtg tgtacttctc gagatgatta ttgggaggag ggctgtggac aagagccggc 360
cgagccgtga gcataaacta gttgagtggg cagcncct ccttgtccac aaccggaagc 420
tcttcagaat ca 432

<210> 6875
<211> 367
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-011-Q1-E1-B5

<400> 6875

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ttccaattgg tgggtactata tatatgtttg ccaaataatg tgtgcaccgt gtgcaactat 180

ggaacagcga agtggtaatc attttgtgag ctttgaaca gtgaagtgac acatatttgt 240
 cctaaaaaaa aaaaaaaatc aataaaaaaa aaaaacaaaa actagacggc ctagacattc 300
 aaatcaaaac gaaacagagc catgagaatt cataacacac actagcctgg aacaaaaata 360
 caaaacc 367

<210> 6876
 <211> 408
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-011-Q1-E1-C1
 <400> 6876

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 gaaccaatgc ttcgctgaag caatttcacg ggcccaggcg caaaattagc acccccggga 180
 agcccagcca tgttgagact tctggcccag ctgacctatg aaacgatttt taatgggttg 240
 cgtggatttt cttataaata gtaccatctt gtttatatat cttaaataca aaatcatcta 300
 agcgggacga aactaagaat atcaccttgc tttaatagta ggtatagata tagatataga 360
 tatgccattg gcctttgggtt ttgccccgtc tcttgagaaa ttagaact 408

<210> 6877
 <211> 423
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-011-Q1-E1-C4
 <400> 6877

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 tctgacattt gttttgattt aataaaatat taaatcattt atttacotta tgccaatttt 180
 tgcaggagct agatatatta ttccagagct cttttataat tggcataata tttggacata 240
 tattaatata tataactaat atatttccaa tgcaaatatt tatgcattaa ttccaaatgc 300
 ccagaataaa tacctatgag ctcttaaaaa tattgggttg atttttatct ctgtccaata 360

tttttagaga gcaacatgag cattttcttg gacccttttg gagaaatttc tatttgggtc 420
att 423

<210> 6878
<211> 432
<212> DNA
<213> Triticum aestivum

<223> unsure at all n locations
<223> Clone ID: LIB104-011-Q1-E1-C5

<400> 6878

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gatcttcaca cttcttcaca cttccgtagc ccacgaagag gaaaatgcac taataagcct 360
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ngcctctgct tc 432

<210> 6879
<211> 415
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-011-Q1-E1-D1

<400> 6879

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agagacacac atgaatcgga atttattaga atactctatg tgcttcactt atatcttttt 180
gagctagata attttgctct agtgctttgc ttatatcttt ttagagcacg gtggtggttt 240
tattttatag aaattattga tctctcatgc ttcacttata ttattttgag agtcttataa 300
aacagcatgg taattttctt tgggtataaa atttagtcct aatatgatag gcatccaaga 360

gggatataat aaaaactttc atataaagtg cattgaatag tatgagaagt ttgat 415

<210> 6880
<211> 391
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-011-Q1-E1-D11

<400> 6880

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agaccgactc tgagcgcgcc gacgtcgcca agggatgggc ctgcctccag tcggcccctc 180
gcactgtggt gctggacacc aagacaggaa gcaacctcct tcagtggccg gtggaggagg 240
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tctttccact cagccttcat cgcgccacc agctagacgt cgaggccaca ttccgcctcg 360
atccgctaga catcgccgtc gccaacgatg c 391

<210> 6881
<211> 419
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-011-Q1-E1-D2

<400> 6881

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gctagggttc ttcaaatttt agttgcatca aattagttag ggttcatcta tgggtggaaa 120
tgaatcggat acggatgcgg ctacagatgtt ttcttagata ttgctcaaata aggatattgtg 180
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gagtgttgat tcatttccgt tccgacaaat ttcaggcgct cgatatgtcc tatttttagca 300
aaggatcatgc cggatttgggt cgtgaatttt ggcatgactt gtgccagaat ttgtaggaaa 360
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<210> 6882
<211> 266
<212> DNA

<213> Triticum aestivum
 <223> Clone ID: LIB104-011-Q1-E1-D3
 <400> 6882

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 ctctatagat gaagaactaa ttcattcagct ctagctaagc tgggtacaga gctaattcat 180
 cagctcacca gtgatcatgc gtgttgctga atatctcatc taagtgcgtg ttgtgtaatg 240
 agattaatgt gggaatacat catggg 266

<210> 6883
 <211> 433
 <212> DNA
 <213> Triticum aestivum
 <223> unsure at all n locations
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 <400> 6883

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 tgctgggatg gcaaccgga ccaccggccg gagatggccg aggtggtggc gatgctggag 300
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<210> 6884
 <211> 88
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-011-Q1-E1-D7
 <400> 6884

cgggccgacg gggaatctaa aatcgggacc gacgtgcgtg ttttctgagc gaaggtttca 60

aggctcactt tcctaaagta ttgtactg

88

<210> 6885

<211> 405

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-011-Q1-E1-E12

<400> 6885

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atatattgaag gatagaatct ggaaacatat acagggctgg atggaaaagt gtctatcggc 120

tggtggggagg gaagttttga ttaaatcagt cgcacagtct attccaactt attccatggc 180

atgtttttaag ttgccccgtg gactatgtga gcacatcaat gggctactac ggaaattttg 240

gtggggtagc aaggagggtc agaggaagcc ggcgtgggta tcatggagaa ctatgtgcaa 300

acctaaacat atgggaggca tggggttccg agatattgaa ctttttaacc ttgctttact 360

ggcaaggcaa gtatggagat tgctccaaga gccggatacc ctatg 405

<210> 6886

<211> 448

<212> DNA

<213> Triticum aestivum

<223> unsure at all n locations

<223> Clone ID: LIB104-011-Q1-E1-E2

<400> 6886

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cgtccgcgcc acagacttca agaagattac cgctggaaaa gatgacaagg gtcttaagac 120

ttacgatcct gggtatctca aactgcccc cgtgcgttct tccatctgct acatcgatgg 180

ggatgaggga attcttcgct acaggggtta tccaattgag gaggtggctg aaagcagttc 240

atgtgttgag gtcgcctacc tcttaatgta cgggaatttg ccaactcaga gtcaactggc 300

aggctgggaa tttgcaattt cacagcactc tgctgttctt caaggactct tggatatcat 360

acaatcaatg cctcacgatg cccaccccat ggggtgtcctt gccagtgcaa tgagcacact 420

ttctgtcttc caccagatg caaacctt 448

<210> 6887
 <211> 356
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: LIB104-011-Q1-E1-E3

 <400> 6887

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 tctgacgata aatgaaccct gtggagagac aacaagccaa aatcaaacag attaggggtcc 120
 acaactgttt caatgggaat gcagcgctca ctattgaaat atcatacaca tcacaaaatt 180
 agctattact gttatatcta gataactcat aatgaagaaa acctacacta aaggcaagca 240
 tcaccacaaa gtataccttg tcatagactg gaatgaaata gtagccatta ggagcacatt 300
 ggggtgcttcc ttccacaaa ccatcaacag tacacagctc aacctgattc aaaaag 356

<210> 6888
 <211> 343
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: LIB104-011-Q1-E1-E4

 <400> 6888

gggtcgacgg ggatgagttc cgacagcacg acggcatggt gacgatcttg atgttctacc 60
 gtcgcatggc ttcgcctaata caccgctaca atattatcaa ggattatggt ggaggggggc 120
 accgcacaca gctaaaagat caatgatcaa atgttgtgtg tctgggggtgc cccctgcccc 180
 cgtatataga ggaatcgagg atggggcccg ccaacgaagg tggcactccc aacgggggga 240
 atccacatct aaaccttgct atacactaga atgaaatagt acccattagg agcacattgg 300
 gtgctttctt tcaacaatcc atcaacagta cacagctcaa cct 343

<210> 6889
 <211> 411
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: LIB104-011-Q1-E1-E9

 <400> 6889

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 cgaaaaaccg agccaacaat gagtgcaccc atactaagac taccagagcg gtcttgccgc 120
 gtggaggaga tatcgtgtac agtggtgcac accagcactc tggaggagtc ggtgcttctc 180
 tgcattggcca ggatggacgc cttctatgtg aatcgcttcc aacttacggc acaggggaagg 240
 aggcagggaa cgaggcaaac tacattgtcg gcatgtcgag ttgctaccct aagccaggat 300
 ccatcaaggt cagcgacggc gaggtgctga ccatcgtctc caactacagc agcgaccgag 360
 agcacaccgg cgtcatgggc ctggtctaca tctcgtggg cgaaccgcaa c 411

<210> 6890
 <211> 382
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-011-Q1-E1-F11
 <400> 6890

cgggtcgacg ggacacgtca tctgaaaagt ctgcaacatg aacgttgcag cccgaaaacg 60
 ggtcagcaca tggaatatgc tagcaatgta acacatagag agtaatgaac agaaatatgc 120
 tatactacat gcatatatga ctagtggaaa gctctatggt tacagttttg cataaagcca 180
 atttttccct actgcaaagg aataaattta atttaactat catggtgggt gttaaacatt 240
 gagaaggtag acaccctctc aatcccaatt gagcatcatc attaaacca acagattaaa 300
 ttaaagtaac atgatgagat tcacatgata atccagatac tagatactca aaacatccat 360
 aaccggggac acggctaacc at 382

<210> 6891
 <211> 269
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-011-Q1-E1-F12
 <400> 6891

cgggacgaca cgagtcacat ttgtcacatt gctttgcatg gtcattgtagt tgacatcgta 60
 tttgtggcaa agccaccatg cattatTTTT taccgtgtc actcttgatt caatgcacca 120
 tcccgttaca ccgctggagg cattcgtata gagtcatac ctggtccaag tttcgagttg 180

taatccctaa gttgtgatca caataagtgat gatgatcatc actattagag cattgcgcac 240
 aaaaggcgca caaaaaagaa agggggccac 269

<210> 6892
 <211> 383
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-011-Q1-E1-F3
 <400> 6892

gggtcgaccg ggatgacaag caatcataac acaatacact acatgtaaac agttacagaa 60
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 atcgttattc gcattctcaga gatgaacaca gtgggtgtaa tacatcttat ttgtttggca 180
 gtcgcaatcg ctcgttctat atctgaatgg ccgtgctatc ctatcttcga aggttcataa 240
 atgttgaaca atagggcgca tgcccaatgg aattgcgata ggtgtcccc tgccaatgac 300
 aatgaagaca cccgacgatg tctccaacaa gaacgatgcc cataaagcca tggctgtcct 360
 caaggtgctc gtcaacaaag tta 383

<210> 6893
 <211> 417
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-011-Q1-E1-G10
 <400> 6893

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 cgagcgcttc gtgggtccggt tcccggacgc catgccgctg gacaagggcg cgcccctgct 120
 gtgcgccggc atcacctgtt acacccccat gaagtaccac gggctgaacg ctcccgggat 180
 gcacctcggc gtgctggggc tgggcgggct cggtcacgtc gccgtcaagt tcggcaaggc 240
 cttcgggatg aaggtgacgg tgatcagctc atcgccgggg aagaagcagg aggcctcga 300
 gaggctaggc gccgacggct tcgttgctcag caagaacgcc gacgagatga aggctgcgat 360
 gagcaccatg gatggcatca taaacacggt gtctgcaaac atccccatgg gccctct 417

<210> 6894

<211> 423
 <212> DNA
 <213> Triticum aestivum

<223> unsure at all n locations
 <223> Clone ID: LIB104-011-Q1-E1-G12

<400> 6894

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 tttttataa aacatttttt acacacaacc aaaaatagaa taaaccatac aagataaaaa 120
 taaaataggc atattatata tcaaaatfff cagaaaaaga tttcctacaa cctaaacata 180
 tttatagcat caaatgaaat ccaaaaaatt caaataaagc aaagagtgc atagctctaa 240
 taaaatcaa taaaaatcat tttaaaaaat accaaaatga tttcaaattt atttctctcc 300
 aattttctaa tgtagtgaat cattttaccc tattttccat atattttatt tttggtgaaa 360
 aataatttga ataaaaccca aataactcca aattgaaaat aattttaaag ggacattaaa 420
 ttt 423

<210> 6895
 <211> 434
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-011-Q1-E1-G2

<400> 6895

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 ccggattgag cgacagcggc gctccggggc tcgtcacctt cttgggggtg tcgttcttgg 120
 tgagcttggg gtggatgtga tgctttgggt gcttggcggc ggattggtct tcagaagccc 180
 tgccggtctc ggcggagcgg tgcttcatcc tactcatgga tggcggcgta tctcggcggc 240
 gtggcgagcgt ggagattcgg cgcccgatgt gtggcgatgg actcgcgag gacgacgaag 300
 ctgtctggtg tcgtggtgac gtcgatagct gaggggccag acaaggtaca agcctcaatt 360
 tgatctgaag acggacctgt ggaagatggc ggcgacgaca cagagtgcg tctgaccgga 420
 ttatgcccc aacc 434

<210> 6896
 <211> 407

<212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-011-Q1-E1-G9
 <400> 6896
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 tgaaatatgg ctgccagccg gctaggccga catatatgaa tcgacgcgtt gggcgccctg 120
 ccgattcaaa tctaaaacat gagccggatc gctcgagtga tttttcgaag aggaaaagcg 180
 ccggatcgct cgccacggtg agcaaaggat ggacgcgaaa tgaatagagc tggcttcagg 240
 cacacggcgt ttctgcatgg atgcatgttc cccatgccgg gccggctccc caccatgcgg 300
 gcatgggctg gtgcaagtct gatacgtgcc caggcagtct gccagcgcgt gtgagttgtg 360
 accatcctca cttatcgaat taagattttt ctgaccctaa aaaaaga 407

<210> 6897
 <211> 426
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-011-Q1-E1-H10
 <400> 6897
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 gacgaacccc gtggttaagt cagaagtagc agtagcgcgt tacagaaagc gcgctactgc 120
 tacattagct acagcgcgtt ctgggataca cgctactgct actactttct cttttccccc 180
 tttatcattt agttttcttc acattttatt tttttccttt caccttaata tatttctttc 240
 attttcaatt acctttctat ttgctttcca tttaatttta tacccttttag cagtagcgag 300
 tttagattaa aacgcgctgc tacaaagaaa gtagcggtag cgtggttcga tataggtcgc 360
 tactactatg tgtagcctat cggataagct gtgggaattt tagtagtaac gtgttttagaa 420
 caagac 426

<210> 6898
 <211> 381
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-011-Q1-E1-H11

<400> 6898

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aagactgata gggtcctgac gttcaagctc ctccctcgta gactgactgc agtcaccagt 120
gcaagcagat tcttggtctg cccagggcat cccactcac agatgtgatg gtgtgatagt 180
gataatccat tggctagtgc tcctcttggt gtgtgatgat ggtaataaag cattgatttg 240
tttggtgccg ccatgcccta gttgtggcca gctgcaaagc agcagttcct tagtgtaaca 300
acagtcgata cattacgacc gtttgatggt acgcttggtg tattaataat ctttgatga 360
cctccaaaat aaatacaaat a 381

<210> 6899

<211> 346

<212> DNA

<213> Triticum aestivum

<223> unsure at all n locations

<223> Clone ID: LIB104-011-Q1-E1-H2

<400> 6899

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cgctcgctggc gaggtcgggc gcggtcgggt tgctgcgaat cgacgacgac ggctgtcggt 120
gcagaggacg aaggcaacaa cgatgacggc actgcggggc gtcggggcgt cgtttgtctc 180
agcaaagatg aagggcaggt catggcggag ctctggacc gtcgagagg acgaggggga 240
ggcgatagcc gcggtggtgc tcgtcggtag cgtcggcgag gtctggtgag gtggggaaca 300
gccagggaga gagagccagg gaaggggaaa gagctccang gaagag 346

<210> 6900

<211> 233

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-011-Q1-E1-H3

<400> 6900

gggtcgcccg gagggccatac agcagctcga ggcatgggg ttcaaccgtg agcttggtgt 60
ggaggtcatc ttgcatgca acagggatga agaactggct gcccaaccatc ctttggatca 120

tggccacgag tttgaggaac accaatagat gtttagattgg tgttaccgtc gacagacaca 180
 agagtcagtg acacaagcag tacagtacgg tgtcgttctt atatctcgct gct 233

<210> 6901
 <211> 417
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-011-Q1-E1-H4
 <400> 6901

attccccgggc cgacgggggt ctgagacatg gtgacagagt cacacacaca atttatgtga 60
 taacttgggc acataagtcc aggaaaattt ccactgatga gtgcaaagaa agaaccgcta 120
 ggatgcgtgc taaaaaagat tgctttgtga aagcgtgttc ttctagtttt catgataata 180
 atgatgaaga tctaaaagtg attgatgtgg ctccatttaa acctttgttt tccaatatga 240
 atcttgataa atatgggact ggcgattagt caactttagt taaaaggcgt ccaatgattc 300
 ggagttttta gatcttgatg caaaaattaa taaaagtggg attgaagagg tcaaaacttt 360
 acatagcaat gaaccacta ttttggattt caaggaattt aattatgata attgctc 417

<210> 6902
 <211> 420
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-011-Q1-E1-H8
 <400> 6902

cgggggtctg gacatggtga cagagtcaca cacacaattt atatgatatc ttgggaagat 60
 cagttctgcc atagtgcctt tgctgctgct gctactttta gcctttgttt ccttggaac 120
 atgttcagag tgtagataag aaacttatgc tactatagat ggatatatgg cattcggtag 180
 atcgacagca agaagacgga tattcttttt ctgtaaaaca tgaccctttg attgatttgg 240
 gttcactact aaactttcta atgcttcttc atacgactac cacctctgat taatctcctt 300
 tggattcagt tatgtacttt tgtttgtttc caactatttt tcaactcgggt ttttgggggt 360
 gttggtagct ggaatgcaga gcatgaagtg gtgtaagggt gtgttgatgt gggacattgc 420

<210> 6903

<211> 277
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: LIB104-012-Q1-E1-A1

 <400> 6903

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 tcacgaaata gataatgtct ttacacacat tttgtctgta tctaatacatt atccgtatatt 120
 cactcctacc aactggtaga ttcatgtttt tccctcattt gtctgcccatt tgtttcagaa 180
 taattcacat tgacaacaat tacaataaag cagccactct agacgattct agcattcgat 240
 atcttgaaag caaattcata gcgcttctat attctca 277

<210> 6904
 <211> 419
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: LIB104-012-Q1-E1-A10

 <400> 6904

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 caacacaatg gtgtcattcc ggtggtggat aattgggttc aactgggtgg taaccggcgg 120
 caaaatgctc gaaaaagggtg ctccaaaact ctattgggta actgtcgttt ttctcgtgtt 180
 tgatgtcttc ttcgctgttt tttgtgttgt tgtggcctgc ttcattggaa ttgcactgtg 240
 ctgctgcttg ccttgtgtcg ttgcaatact gtatgctctg gttggccagg aggtgcatc 300
 agatgcagat attggcattc tcccagata taaatattct gatcccagtg agaatggaga 360
 aaatggaacg gacgatgggg ttatgattcc taccctaat aatagtggaa catctacaa 419

<210> 6905
 <211> 388
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: LIB104-012-Q1-E1-A12

 <400> 6905

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caaggaaagg catggaacac tttccaagaa ataaaattaa gttaccatat gaatctatca 180
tgagggctac ttatggatta aataccaaag atgacaatac ctagatcttt gtattatgcc 240
tagctagggg cataaaacaa tagtgcttgt tgggaggcaa cccaatttta ttttgtgttt 300
tttgtttttg cttctgtttt tcaataatta cacagtataa attctatagt aattatgtgt 360
tagtgtttta attactgttt gtgccaag 388

<210> 6906
<211> 417
<212> DNA
<213> Triticum aestivum
<223> Clone ID: LIB104-012-Q1-E1-A2

<400> 6906
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cggatgttgg cggcaatcat atgtcgtaac ccccttgggg gcggcattct tggaggtgca 120
ctcggcttcg cgggaccagc ggacggcttc tttggtggag tgggtgcttca tccatacatt 180
gatggcgacg gatcttgacg gcgtggcgta gtgcagattc ggagttcgat gtgggaggat 240
ggactcgtgc aggaggacga cgctgtctgg cgctcgtggtg gcgtcaatgg cagagagacc 300
tgacacggta gacgcaacag tacagctctg aagatggact cgtggcaggt agctgcggcg 360
gcctcatacc cggcaggcat cctgattgag gagtgcgccc gactggtagg tgcccca 417

<210> 6907
<211> 339
<212> DNA
<213> Triticum aestivum
<223> Clone ID: LIB104-012-Q1-E1-A3

<400> 6907
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tcaatccttt ctcttcccg gtttcggcac gggaatcatg caagtaccac caggatcgga 120
cgggccacct atggcatgct tttcaggatt ggcacgtcca ctatggcatg ttcatgacgt 180
ctcataacga cttcgtctga tacatctaca gctgttataa atctgaatgt gagtctcatt 240

cataacgacc acactttcag gtctttctcat ccagtcaata ccacacatac cagcaacagg 300
cttctcaata cttgacatca tatcatcggy acgtccac 339

<210> 6908
<211> 397
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-012-Q1-E1-A4

<400> 6908

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accaagatga gggccttgag aagctggaag agaccgtgct gagcacaaca catattgcgt 120
tagcagtcac tgatgaactt gacctgcacg caagactgac tgatgacctt catgatcatg 180
tggttggtac aaactcgcgc cttcagcgtg tgcaacagag gcttgcggtt ctgaacaagc 240
gcgccaaggg cggctgctcc tgcattgtcc tgcctgctgc caccgtcggg ataattgatgc 300
ttgttggttag tgtctggctc ctcatcaagt atctgtaacc tctgccaac tcaaattcagt 360
ttcaagtgtg cagttcattc aaagacagta tggttac 397

<210> 6909
<211> 432
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-012-Q1-E1-A6

<400> 6909

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ggggagaaca gtggacttca agaacacgct cctgataatg acatcaaattg ttgggagcag 180
cgtgattgag aacgggggga ggaagatcgg gttcgacctc gactcggacg agaaggacag 240
cagctatggc aggatcaaga gcttggtgat cgaggagatg aagcagtact tccgaccaga 300
gtttctcaac cgtctggacg agatgatcgt cttcagacag ctgaccaagc tggaagtcaa 360
agagatcgcg gacataatgc tgcaggaggt tttcaccatg ctcaagacca acgacatcaa 420
cctgcatgtg ac 432

<210> 6910
 <211> 406
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: LIB104-012-Q1-E1-A9

 <400> 6910

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gcctcaaggt gatcctcaaa ttctccgaat taatttcaaa taaactacta aaataatttg  120
ggaaaatgca accggaacc tgggaattgg gcatagaagg tcagttctga tgccagataa  180
tgtccacttg aaagagatga ttattagggtg cgcgcaagtg caattgtgca atgatagtgt  240
caattcggtta tttgttcaaa gtgacatgaa aacgaatatc ctacaactga gttggatctt  300
cactccaaca caacatcttt ttttgtggaa gaaatggtga caacttcact gcatatgaca  360
tgagtgtaat atatattaaa tctcatgttt catatgttcc aaaatc                    406
  
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<210> 6911
 <211> 424
 <212> DNA
 <213> Triticum aestivum

 <223> unsure at all n locations
 <223> Clone ID: LIB104-012-Q1-E1-B10

 <400> 6911

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tacctcaatt ccaatcgaat tccaaaattg gaattccaat aggatacaac atacacaggg  120
tgtacgcatt acatatgaat gaaacatatt cattaaccta agcatgccct caattttcat  180
taatgagttg atattatatt aattgaatat cctttatgtt ttacgagatt tttgctaaag  240
tttcatttac acctaatata catcgaatag accctgttac tgtgagaatt cttaattcaa  300
gagttatacg gagggactta tgtcaccaca nacagaaact aaagcatgtg ttggatttaa  360
agctggtggt aaagattata aattgactta ctacacccca gagtatgaaa ctaaggatac  420
tgat                                                424
  
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<210> 6912
 <211> 432

<212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-012-Q1-E1-B2
 <400> 6912
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 atggtccaag tagaactgga gaagctcgca ctcaagggtc ccagcactgg tcagcaagct 180
 ccggtccagtc caagcgccgc agcggggcgac ctgaatactg tatgcgcccgc ttcgaccgcg 240
 tcggcatccg cagcaggcac gtcgaccgac aagaataaga actatgccgt gctggctggc 300
 accctgtctg gtctgaacgc cctgagctgg tacctcctgt caaagcctaa taatacggag 360
 gaggttgtcg actgatcggg ccatcctgca ctggattttt acttccttac tgcacatgga 420
 cctgcgcgat ga 432

<210> 6913
 <211> 411
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-012-Q1-E1-B4
 <400> 6913
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 acaaggcccc cttccacggc atgacctcct gcggcaacat ccccatcttc aaggacagcc 120
 gcggctgcgg ctctgcttc gagctcaagt gcaccaagcc cgacgcctgc tccggcgagc 180
 ccaccatggt caccatcacc gacaagaacg aggagcccat cggccctac cacttcgacc 240
 tctccggcca cgccttcggc tccatggcca agaagggcga ggagcagaag ctgcgcgacg 300
 ccggcgatgt ggagatcaag ttccggcgcg tcaagtgcaa gtaccgcgcg ggcaccaagg 360
 tcaacttcca cgtggagaag tctccaacg aaaactacct ggccctggtg a 411

<210> 6914
 <211> 390
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-012-Q1-E1-B5

<400> 6914

gacgggcttc atgaatttga tgcattgtga ttgtagtttt taaagcctag tattgaacat 60
tgtagatgag ttctgtctat gattcttccg aaaaagaatt tgatatggaa gaggaggagg 120
atcttgcgat gatcctagct atgcacatca ataaaaaacc gaagcacggg ggttcgggta 180
ttggtcggca aaaaaattgg agggatagga tcgatgcca taatagattg atgaggtact 240
atcttgtgga gaatcccaca taccgggagt cgtactttcg tcgcccgttt aggatgagca 300
ccgagttgtt caggcgcatt gcagagaaac tagcgagcca tgaccgggtt ttttcagcaa 360
aggaagaacg cctccagaga gctcgggcat 390

<210> 6915

<211> 374

<212> DNA

<213> Triticum aestivum

<223> unsure at all n locations

<223> Clone ID: LIB104-012-Q1-E1-B9

<400> 6915

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ctaacaaatc ccccttctgt gctcctttg ggggtgttgg gttgcaacgg tgactgattg 120
caactcaatg ctgtggggtc atactgtcct tggttgcaaa tatcacgact tgcctgcgc 180
aatcatgac anacactatt cagaagaaat tcaagggttc ttcaaccag ctgctatatc 240
agtctgtcc ttaccaatca ttgacctgt ntcttatcgg ccggttcctt gatggattcc 300
tgactaacca aaacgtcttc gctttcaatt acacatctaa cgttgtgttt ttcaacgtcc 360
tgtctgttt gaaa 374

<210> 6916

<211> 393

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-012-Q1-E1-C1

<400> 6916

accatctgca tcaagcattg agggccaaca aactcaagaa ttcaaacag ggacattgaa 60

aaaaggtggc aacattggct acagttcagg atacaccggg ctttcgtgag ggaattcttt 120
 tttaccccc cttttttgac tttctcgtcg atgcaatttg taaagtccgg ttgaatttat 180
 atgctgactt gacttgtgtg cgaagaaagg atgtttgacc caagtatagc ttctggtagc 240
 tgcagccggt gattctttca tatgttggtg accgatctgc ccaccgccgt ttgctatgta 300
 attcaaagag ctaattgagt gctgtactgt tcataccac tcagggttga gtaagagtaa 360
 cccaacgatt ctttttacca aataagatgc ata 393

<210> 6917
 <211> 433
 <212> DNA
 <213> Triticum aestivum
 <223> unsure at all n locations
 <223> Clone ID: LIB104-012-Q1-E1-C10
 <400> 6917

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 aacattcatc agttaccaa cttccaatat aattcatggc acccaatagg aaagttttta 120
 ttatacccaa cttggatgcc aatcatatta ggacaagttt cataaccaa gaaaactacc 180
 aggcggttct aaagactctc aaaatgat ataatgaagcat gagagtcat ctatttctat 240
 aaaataaaac gaccgccgtg ctctaaaagg ataaaagtga agcactagag caagtgacaa 300
 actactccga aagatataag tgaagatcaa tgagtagtca taattatgca actatgtgaa 360
 gactctctaa catttagtaa tttcagatcn tggatatttc ttcaaacatc aagcanaact 420
 atgtaaaatg aca 433

<210> 6918
 <211> 352
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-012-Q1-E1-C11
 <400> 6918

acctgctgac cggcggcggg ccacgcgga aggaaaataa gggaagggcc cacaaccgct 60
 cggttaggca aggcaaggca aggcgcaagc gtatgcgcgt tccctttttc ggacggttgt 120
 acagcgggca agggaaaagc caggaaaaaa gagagcgggtg gctcgttttg gcacggcccc 180

ggctggctgc atcgctttct tccgcggcat gggcgggcag cggcagcgat cgggtccgtcc 240
 atcaatgcag tcggccttgt gcggtgggtc gttgaagggt gaggttgcta ggaaatggaa 300
 atggtgctcg ctggctggcc cttgtcgcgt tgctgcttt tgcgtccggt tt 352

<210> 6919
 <211> 394
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-012-Q1-E1-C12
 <400> 6919

ggggccaccg gaactattga ccagggaacg gcaaaggcca aaatggcacc cgggttcaag 60
 ccaaaggacc tggcccctaa cacaagcacc aaggagaatt ggttcaacgg tgtgaactaa 120
 ccgcggcatc ttcttcagag gagccaaaga agctccagtc tctttccgta atcgccctca 180
 gaccatggca gaagtgaat aacaccgcga cccggggcgac ctttcagccg gtgtcgccct 240
 tgcccttgtc tcattctgat gcaataaggc ccgaagaaat ttgaagagtt tgtttgtacc 300
 tttgaatatt atagagcatg caccgagcag tcgtgatgtt tgaatcaaac cgtegccttc 360
 aagcgcttga ttttgatgga tgctgtttgt tttc 394

<210> 6920
 <211> 430
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-012-Q1-E1-C3
 <400> 6920

ccggtcgacc ggataatcaa ggtaacggat ggcaatgttc ccaagagtgg ccctgtcaaa 60
 gacgaggagc aaattgcttc cctgaggcta aaaagataaa gtcaactatt aaggaccacg 120
 gttaaggata aggattccgt tcctgcttgt gatgttcaaa aacctgcaca tgcatctgaa 180
 aacattggca ccaatgattc acaaaacttg caatatcctt caccctaattg gacctactgg 240
 gttgacctga tgagaacata agatgccaat ggcaatactc taaatttttg tgctgagtac 300
 gagcgtcaaa aatggcacc agaggacgag ctctggatct gcttaagggtg ttacgcagtt 360
 caataagtac ttttaactgtg ctgtgcagct tcttttcaga aacctgggac tgcaacttgg 420

gtgcagttgc

430

<210> 6921
<211> 383
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-012-Q1-E1-C4

<400> 6921

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aaaagatcaa agagactact gaggagcacg ggtgaggata aggaatccgt tgctgcttgt 120
gatgttgaga aacctgcaga tgcagctgaa aacaatgaca acaatgatgc agaagagttg 180
caatatacctt cagcctagtg gacctactgg gttgacctga tgagaacata agatgcgaat 240
ggcaagactc caatttttgg tgtcgaataa gagcgtcaaa gatggcaccc agaggaggag 300
ctctggatct gcctaaagtg ttacgcagtt caataagtac ttttaactgtg ctgtgcaact 360
tcttttcaga aacctgggac tgc 383

<210> 6922
<211> 423
<212> DNA
<213> Triticum aestivum

<223> unsure at all n locations
<223> Clone ID: LIB104-012-Q1-E1-C6

<400> 6922

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cgccatcatg atcctgacgg tgaagcgcgga caacatctgc agcttcatct cggagaccaa 120
ccccgggcac gtgcggtcgt gggagaccaa ggacagccag ctgacgatgg tggcggacga 180
cctgaagccg cgggcggtgc tgacgtgccc ggagaagaag ttgatccagc aggtggtggt 240
cgccagctac gggaaccgcg tggggatctg cggcaactac acggtgggca aatgccacac 300
gccaaggcc aaggagattg tggagaaggc gtgcgtgggg aagaggagct gcgtgctggc 360
cgtgtcgac gaggtgtacg gcggggacct caactgcccg nggcacacgg ccacgctggc 420
cgt 423

<210> 6923
 <211> 393
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: LIB104-012-Q1-E1-C7

 <400> 6923

attgccgggc cgacggggat gtatactggc cgactggcaa gattaactta tttaactatc 60
 aacatcttag caaaaataacc cgatacaaac gccatgggtgc taacaccatg tgaaagagaa 120
 ttgaagacat ataaattcct tttctaagaa ggggcgacct agccagccgc caggacgacg 180
 gctccccctt accggcgacc tcagtcacgc gcggaggggg gtcaccggat ccacgcatgt 240
 ggatcatgta gctttaggtc ttaggtagct tactttttcg gtcgttcacg gtcttggtct 300
 gggcagcggc actaacgcgc ttgaatagat aagatcccca gctatcggtc ctatggttga 360
 atatccccgc tatcgggtccg attgaattga aat 393

<210> 6924
 <211> 418
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: LIB104-012-Q1-E1-C8

 <400> 6924

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 tctgggcgcg ccagagcgt gcacgccaac tgttcggcaa aatgccaatg cgtgccacag 120
 ggcttgggtg aggctggcaa ttagcagacc taggttagga gtagctagga tcttagtgga 180
 caaggttact gggtcagtgg attaagtaca cagtgcacaa taagaatcat gtcaaaactg 240
 actatgcaca ccaagtgttc gacagaatgt catgggcacg taggcaactc ttgggggtggc 300
 caaactctcc agatcatatt ctctttagat gataaagagg gtggcaaggt tacttggtca 360
 agaccagaaa ctcgtttagt caaaaatttg agaaaaccaa ttttgggcag aaactaaa 418

<210> 6925
 <211> 194
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-012-Q1-E1-C9

<400> 6925

ttatacttgc gctgtccgat ctgctccggg aggacagtga gtcttggtc gacaaggctg 60
ccgttctata caagtcattcc acgggatggg aacgctgcat agattgcctg tgcattgcga 120
tgcaactggca cgttctctcg tgtacaagat agtgtgtgag ccgagccgag ctttgttgcc 180
cgtactgttt gtca 194

<210> 6926

<211> 441

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-012-Q1-E1-D1

<400> 6926

cggtaagat atcccgggtc gacgggcttg atcaagagct acgccttcca tcgtactct 60
tacacctccc ccgtgcaaat aagcagccgc cgcgagctct gccttgccaa tactctctgg 120
agatgcaaag cctcccatgg gcgattatcc gaagcgtcag cagagtcggc tctgctgcgc 180
ctcgtctgtg gcttccagct cttgcccagc gagatgcccc tccactcatg gagtcagtac 240
cgtcttatcc aaatcaacat ctctataaaa ttttccgtga gaagcatagc aagctggatt 300
tgccgtgcct ctcttctgt tctgtacta cagcagcatt ggataaagca gagaggatga 360
aggcagcaga ggagagcaat cccatggtag agacaagtgc aatacaagat gtgtattacc 420
agccaatcat cccgggtagc a 441

<210> 6927

<211> 416

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-012-Q1-E1-D11

<400> 6927

cgggtcgacc gtctagtacg aaatctaggg ctgtttatga cacttatagg aatacccca 60
caaattgatt ggaaagaata acttgagggtg gttcgtaccc taccataatc tcttcatttg 120
ttctccgcta ttatttactt tggagtgact ctttgttgca tgttgaggga tagttatgtg 180

atccaattat gttattattg ttgagaggac ttgcactagt gaaattatga accctaggcc 240
 ttgtttcaat gcattgcaat atcggtttacg ctcaactttta tcattagtta ccttactgtt 300
 tttatatttt ctgattacaa aaacattttat ctaccatcca tataccactt gtatcaccat 360
 ctcttcgcgcg aactagtgcg cctatacaat ttaccattgt aatggatggt ttgggg 416

<210> 6928
 <211> 410
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-012-Q1-E1-D12
 <400> 6928

cggggcccgcg ggttaacccc aatcaaaatg gaggaattac caagggtgtg gattcacatc 60
 aacaccagca gcaaagttga gtgtataaat cggaacccta acgtatcact tactcgtcgt 120
 aagataatcc tgcacatga gacattgcat ccacatatgg tccgtacatt gaaagtactg 180
 gcaaattcac accatataga atgatgaata aaggctatca ctacatgcat atttggtctg 240
 tggaaaagct ctatggttat aagggttttg cgaaaagcca atttttccct actacaaagg 300
 aataaatttt atttaactaa catggtggtt gttaaacatt gagaatggtt gacagcattc 360
 ccaatcccaa ttaactaaca tcattaaacc caacaactta aattaaagta 410

<210> 6929
 <211> 429
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-012-Q1-E1-D2
 <400> 6929

ccgggtcgac gggaggatcc aaatcctagg gttaatcaat tttagctagt tgatgggaaa 60
 atacgaatta atggtaatgg tcttagggcg atttagttcg gggaaagggg aaggggaaga 120
 aaattctatg aaccttttct tttttttcgt taagttcaag tctgacgaga gtaatatctt 180
 acgactaaca actcatttat tttgagaccg acccacttcc tatctaggat tttatttact 240
 agtcctttat attccaacgt gtcaatcgcc aaatgctttg gcaatttccc cggttccgat 300
 gaagcaatat aattttgaac cagacctttt gatctttggt tatctttcgt agtaataata 360

tctctggggtt tgcaacgaaa acttgggtata ttgactatac gaccattaac taaaatatgt 420
ctatggttg 429

<210> 6930
<211> 437
<212> DNA
<213> Triticum aestivum

<223> unsure at all n locations
<223> Clone ID: LIB104-012-Q1-E1-D3

<400> 6930

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tcatttctcc agaccagtac aagaagaggt tcaggaaggc catgtcaaag tacttcctaa 120
ctgtccccga ccaatggtca ccttgaatcg tcgtcacttg atgcctacta ttatttgcct 180
attcgagtgc aagatgggggt gatggcgact gggaagcggg acattgtttt ctttctattt 240
ttttctttgg ttttgttaga atagtcgacg gatctgcgcc ttttgtatgt tatttttgct 300
cgcatcagge tggactggga tcgctggaga gggcgtaggg taaatgttgc ccccatccag 360
gcagagccta tggatcgata tgtgtatatt atatataaca atgctacact gtaacatgaa 420
atgaaatgca gacgaat 437

<210> 6931
<211> 416
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-012-Q1-E1-D6

<400> 6931

gaccagctcc tgcagcatac tgacgccagc gagaatgtcg tcgtcgccag cgaaggactt 60
caggaacgcc ggctcgtcgc gatggctgac gccgcgagtg cgcttgtag agccctcacg 120
tgctgtgag agctcgttcg agggctccgc gtcgcaccgg gacatctgtg ctgtggctgc 180
ggcttcgagg cgggacctcc ctagtgcttc cgccgccttg gtctttctctg cctgggtata 240
tgtccaccct aaactcctcc taccgggtcat ggcggaacga cttgacagag aataccagtt 300
tgggtgggtga tgaggagagg aactgtgaag taattttcga gtgggtagtt tttatagccc 360
ggtgctaagt gtgaacacat attagtttga taggtgtgaa cagatttgca attata 416

<210> 6932
 <211> 441
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: LIB104-012-Q1-E1-D7

 <400> 6932

tacgatcta caattcccg ggcgacggg acgatcatgt tgccttgac atgacttcta 60
 tgtgcaagg tatgatatac gtgaacgggt aaggcatggg tcgctactgg acgtcattca 120
 taactcctgg caaagtcgct tcccaggcag tgtaccatat tccacggcca tttttgaaat 180
 ccaagaacaa cctattggtt gtatttgagg aggagcttgg caagccggaa ggcatactca 240
 tccagacagt gaggagagat gacatctgcg tgtttatctc ggagcacaac cctgcgcaga 300
 taaagccatg ggacgagcat ggaggccaga tcaagctcat agccgaagac cacaacactc 360
 ggggattctt gaactgcccc ccgaagaaga ccatccagga ggtagtcttt gccagcttcg 420
 gcaacccggg ggggtcatgc g 441

<210> 6933
 <211> 389
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: LIB104-012-Q1-E1-D8

 <400> 6933

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 tgacatcaac aagtacttgc cagggccgca ctacgacccc ccgtccaagg agaggctcaa 120
 ggaactcatg agagagtgtg acatcgacat gaacgggtctc ctggaccgcy aggagtctgc 180
 ggagttcatc cggaagctga ccgccgagtc actctgcygc atcagcctca agctgatcat 240
 cacgctggtc gccgccccctg cgctggcgct ggcgaccaa agggcaaccg agggcgctccc 300
 cggcgctggc aatgtagtgc acaagggtgc caatgccatc tacgccgcy ccaccat 360
 ggctgccgtg ctcatccaga gatccgcy 389

<210> 6934
 <211> 365

<212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-012-Q1-E1-E1
 <400> 6934
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 caactgtggt tgtgcataat tatggttatg tcagacgtgt taattgtcgc aatttccaat 120
 tgggtggtact atatatatgt ttgccaaata atgtgtgcac cgtgtgcaac tatggaacag 180
 cgaagtggta atcattttgt gagcttttga acagtgaagt gacacaaaaa aaaaaaaaaa 240
 aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa acaaacacaa aaaaaaaaaa 300
 aaaaaaaaaat aaaacacaat aaaaagaaaa aaccacaaca aaagaacaca aaaacagacc 360
 cccac 365

<210> 6935
 <211> 312
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-012-Q1-E1-E10
 <400> 6935
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 agcaacctac cactaggagt gcatcatatt tacaagcgtc acagcacatt gcaaactctg 120
 gccttaccac aaagccacat cattttgatc gccagattc cgacgaattc cgtatggctc 180
 cacttgcgcc catgtctacg tccacgcaga cgccattaac aggatctgaa ccatctatag 240
 agtgccggat gacttaatta ctttttgagg ctaacccgac cttgagcgac tcaattcatg 300
 tgttgacaat gt 312

<210> 6936
 <211> 343
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-012-Q1-E1-E11
 <400> 6936
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gacacagcac tcctcctgcg cacgcggatt gccgtctcga tccacatgcg acagtgttgc 120
 tccgaggeat tcaccatgtt ggccgcctct tctcagcacg tgaccaacca tacactcttc 180
 ttacacatgc acggagtgtc tgcccatgta cacgtcatcg tcatcccagg ttacgtgtcc 240
 aaaatcctgc tgatcatcaa gaaggactgc attgcacttc agctgctgac cgttttcttc 300
 catggcaciaa ggatcgcggt aacacaacag ggatagacgt caa 343

<210> 6937
 <211> 374
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-012-Q1-E1-E12

<400> 6937
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 aaaaacggcc ccaagggtac ggcccccaa taatggacgg ttcaaccatt ggagcacctc 120
 attaaggtgt acgacggcga agatgaagca agacaagaca gataacatta atctgaagt 180
 ggagtcta atagcatgtgaa tagatgatgt aaaatacatc accaaaaagt gctagatgta 240
 aaatgcatca accacgccgt ggccgctctg acggatgctg taaatactgt tgactctgaa 300
 cttaattgaa gaaactgaac ttacagtcg aaactgaatt ttactgtgga aactgaattt 360
 tactgatgaa actg 374

<210> 6938
 <211> 426
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-012-Q1-E1-E2

<400> 6938
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 gaccgtcact ttggcaacgt gtgtgagctt gacatcatgt tccatctgga gaaagtccac 120
 ttcatgcttg aagagatggt gatgaatggt tgcacgtggg agacgagcaa acagaacata 180
 ttggcgccca tccagcttat ggagaaaacc tcgtaaatag tgtgtgaact caagagcgcc 240
 taggtgatgc ttagcctctt cctcccgctt tcacataga ttccccggtt gtgtgaggag 300

aaatgccgaa caactgctgt atgcatgggt ggctgtgttc acccgactgg aaaatgtgaa 360
atgtttctgta atgttgaaaa tgaagacccc atcattactt aacaacagtt ctgtaaaata 420
atactg 426

<210> 6939
<211> 373
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-012-Q1-E1-E3

<400> 6939

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cacctgctgc cccctcaggt acagaatcct gtatatggct ggtatgacag aaccactgct 120
gttagtagta catagatagg cctgtaattt gtgacactaa ttctttttcc tctctcctt 180
gatgccaaacg gcaaagcctt gttcattatt atcaatacga actacagact gctttagtagca 240
ctagataaga gttgtgtatt cgatcccttt gagttttgat ggccattttc actgggacgc 300
tcacatcttt gtatggctgg tacagtagca atgagaatcc tatgcccaaa aaaaaaaaaa 360
taaaaaaaga aaa 373

<210> 6940
<211> 273
<212> DNA
<213> Triticum aestivum

<223> unsure at all n locations
<223> Clone ID: LIB104-012-Q1-E1-E4

<400> 6940

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gaaggcgacg agatcgacgc catgcttcac cagaccggag ggtgctttcc tggcccttag 120
aaggagcttg ctgcagcctg gctgttctat gtcgtatgct acctttagaa ctagagtaaa 180
atgtaagaag tgaaagaact tgtgaggcta tggttctgtg ccatagcctg aagggggggtc 240
tggagggtgaa acaacatcng agtactgttg atg 273

<210> 6941

<211> 133
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: LIB104-012-Q1-E1-E8

 <400> 6941

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 ctgaataagt tctgcggat gctgttgat gtaatagcca gacattataa atatatcgga 120
 tgttccactg tct 133

<210> 6942
 <211> 386
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: LIB104-012-Q1-E1-E9

 <400> 6942

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 actttcaggc aaaattataa acacaacctt tataatttaa taaacattgt tcttacaatg 120
 ggaatacatg tctactagaac ataatatattt tcgagcaccg agcctctgtt aaacgagcgc 180
 cttcaaggac ttcttcaaag tagtgcccg cggatactcg gtctacggcc gaactgtggg 240
 ttgcaatagc ggtggcctcc atctctgccc agtatgtctt gacacaggca agagccatcc 300
 gcgcaccctc taggcacgcc gacctcttca tagcgtcgat gcgcggcaca gcaccaagga 360
 actattgcac taaactagaa taacta 386

<210> 6943
 <211> 419
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: LIB104-012-Q1-E1-F1

 <400> 6943

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 tcacaccacg tgcaaaacgt gttttagagc tttcattgga ggaagctcgc cagctaggac 120
 acaactatat tgggtccgag cacttgcttc ttggattgct tcgtgagggg gaaggggtgg 180

cagctcgcgt acttgagtct cttgggtgctg accccagcaa tattcgtacc caggttgtec 240
ggatgattgg tgagacaaca gaagctgttg gtgctggagt tgggggaggg aacagtggta 300
acaagatgcc gacacttgag gagtatggga ctaatttaac aaaattagcc gaggagggaa 360
agctagatcc tgttgttggg aggggaaccac agattgaacg tgcgtacaa attttgggc 419

<210> 6944
<211> 375
<212> DNA
<213> Triticum aestivum
<223> Clone ID: LIB104-012-Q1-E1-F10
<400> 6944

acaacgactt agttttggac aattcggtta aaaacctctt aattattaaa aataaaccca 60
ttttcacaaa ccaacacaaa atcctaattg gtaataagtt ggattccaaa aaccaaagat 120
tacaaaaagg ttcaagggtc aaaggaaaaa aacctaaggc tgtagggaat aagattcctc 180
ctgtgtctga tgacagggga atgcagtaaa catcataagc atcaaaacta tgatctggaa 240
cagtatcctg aataaactat tttctggatt atgaatgaat tctgaatcat ggggctataa 300
gtgaattatg taacatggat ttgtaactat ggtggatgtt aagttaacgt tctatcactg 360
caaataaac aaaaa 375

<210> 6945
<211> 182
<212> DNA
<213> Triticum aestivum
<223> Clone ID: LIB104-012-Q1-E1-F11
<400> 6945

acggattaag aattcctcct gtgtctgatg acaggggaat gcattaaaca ccataatcat 60
caacactatg atctggaaca gtatcctgaa taaactatct tctggattat taatgaattc 120
tgaaacatgg ggctataagt gaattatgta acatggattt gtaactatgg tggatgttaa 180
gt 182

<210> 6946
<211> 372
<212> DNA

[illegible][illegible][illegible][illegible][illegible][illegible][illegible][illegible][illegible][illegible][illegible][illegible][illegible][illegible][illegible][illegible][illegible][illegible]

agcgggttga ttcttttagat ctaatgattt ccgaatatga agggaaatgt aaagaatctc 120
 ctcccggtt cgagcatgac tccgctaaaa aattttaaac caaagatggc aatacctaga 180
 tctattcttg cttttatgcc tagctaggag cgtaaacga tagcgcttgt tgggaggcaa 240
 cccaatttta tttttgtttc ttgcttttta tttatgttta gtaataaata attcatctag 300
 cttctattta gatgtgtttt tatgttttaa attagtgttt gtgccaagta gaacctttgg 360
 gaagacttgg gtgaagtctt tatgatcttg ctgtaaaaaa cagaaacttt aacgctcacg 420
 agattagctg ccatttt 437

<210> 6949
 <211> 419
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-012-Q1-E1-F4
 <400> 6949

ccgggtcgac cggcagggag aggtgaattg gatacatcta aaatgtacca attccttttg 60
 atgtttaatt cctactccct ccattccaaa atatatgtgg ctcgcgcttc ccgaggtcaa 120
 actttgacca taaatttaac caatgagact gactgcatg ggagaaaaaa ttatataatt 180
 aaaaacttct tttgaatatg aattcattgg tataactttt gctccgccc cagtcgatct 240
 cgttggttaa atttatggtc aaagttgaag cacgggaata gaggaagcac tatatttttg 300
 atcgagaga gtatgttttt taaaaaaaa tagactagca tactaataaa atgcaagaag 360
 gcatatttcc ctttttgagg tgctgcggga aataactttg aaatattcat aggacaata 419

<210> 6950
 <211> 427
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-012-Q1-E1-F6
 <400> 6950

aattcgccgg gccgacgggg tcaattatgt taattattat ttgaatgcaa aacttatgct 60
 tcatttgctt caacttataa ttttaaattt tcactattct actagcgcat ccctactat 120
 gcaagaattt ttgtcttggg taagataggt tctagtgtta tagatgatat ggaggtaaag 180

agagtttact tgaagacgga gcatgggtat actttcaacg tcaaattata taatggagac 240
acatacaccc attttgaatg caaaacttgg caagcactat gcaaggctta tgcatttgag 300
cctgatatgg ttatcacctt tgatattcgt ccggaagatg atattgaagg taatatagac 360
atctgggtcg atgtgcaaac gcctccagtt ctaccatttg gtgacttttt ctcaaccatg 420
catgcat 427

<210> 6951
<211> 399
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-012-Q1-E1-F9

<400> 6951

tcctaaatc aatgaaagga cggtaaccct ggtaaacaaa aaatccaaac cccaacaaaa 60
cctaattcac ccctgggcaa cttccaaatg attgactgac ggccgggaat aaaacaacgg 120
tgctaaacag actcggcctt ggggtagatc cgtacggcga cggccaggcc cagtatcgcg 180
agggggacca agaactggag gatcttgatg actaactccg gaagggatta aagttattgt 240
taatgatgat gacttcagca ccatttttgc tgatattgag ggccctgctg gaactccata 300
tgagaatgga gtattccgga tgaagctatt gttgtctcgt gacttccctc actctctccc 360
aaaaagggtc ttctcgacaa aaataatcca tccaacat 399

<210> 6952
<211> 366
<212> DNA
<213> Triticum aestivum

<223> unsure at all n locations
<223> Clone ID: LIB104-012-Q1-E1-G10

<400> 6952

ggcgagatca aggaattcct gctgacggcg cgccggaagg acgcgcggtc ggtgcggatc 60
aagaggacca aggacgccgt caagttcaag gtgcgctgct ccaggtaacct ctacacgctc 120
tgcgctcttcg acgccgacaa ggccaacaag ctcaagcagt cccctcccacc aggtttgagc 180
gtccaggagg tttaagcatc aagccagaca atgccttttc tagtagcggg aatgttctat 240
ccatcttgct ttagtaactg ttagcaggct ctccttgttt acccccatta agagagtttt 300

gatgtcncaa gactggaatg taatgttggg agctatgtgg ttgaacctgt caggattttt 360
gtgtaa 366

<210> 6953
<211> 396
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-012-Q1-E1-G12

<400> 6953

aaggctaagt taattggatt caactacatg cgtgaacatg tgccaagtcg agtcactcaa 60
tgcatttaaa ggaggatacc accccatcat accatatcat aatcattcta atagcatgtt 120
ggcacgcaag gtaaaccatt ataactcata gctaattaag catggcacia gcaactataa 180
tctctaaatg tcattgcaaa tatgtttact tcataatagc tgaatcaggc acgatgaatc 240
atcatattta caaaaacaaa agaggtcgag ttogtaccag cttttctctt ctcaataagt 300
ccatcatata tcattcattat tgcctttcac tgcacgacc gaacggtgtg tataataata 360
agagtgcacg tgcattggac taagctggaa tctgca 396

<210> 6954
<211> 423
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-012-Q1-E1-G3

<400> 6954

gggccgacgg gaccaaggaa aatacaagca ctggaacgag gggacagttt gtgtggcatg 60
gtggacgcag tgtaggata gcaaaggcta ccgaaaacgc aaataaatga ataggatgga 120
tgggtgatgt atagtgctaa gtatgggaag gaatagacca cgctgggcc tttccattac 180
gtcttaattg tatagacaag tatgtgcaat cctgtctaata cttaccata aaaggagat 240
cacaaatata tttcatggtc ctcggtttag ggaattagga gtatatcaca atcccgatg 300
atattagtct gacagatatg aataaagata atctaagatg gatattaggt aatgattcat 360
gttcagtaca tatattatct tacagccacc ttctttactt gttcaggccc gcagctgatg 420
ctc 423

<210> 6955
 <211> 385
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: LIB104-012-Q1-E1-G4

 <400> 6955

gggaagggtta aaaacctgat tggcaggata ttgaattggc tgaagcccgg tgggcaaatt 60
 tccatcaggg aatcgtgctt caacaattct ggggattcca agaggaaagt gaacccgacg 120
 cactaccggg agccgaggtt ctacaccaag gtgtttaagg aatgccactc ctatgaccaa 180
 gaggggaatt cctttgagct ttctctggta acttccaagt gcattggagc ttatgtgaaa 240
 agcaagaaga accagaacca gatatgttgg ctgtgggaga aggtcaagtg cacagaagac 300
 aaaggctttc agagattcct ggacaatgtg cagtacaaat ccactggaat cttgcgttat 360
 gagcgcgtgt ttggggaggg ttatg 385

<210> 6956
 <211> 433
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: LIB104-012-Q1-E1-G8

 <400> 6956

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 ctacgcgaaa atagccgagc gaagggttag tgcagcggat gaaggttcaa catactgtgg 120
 atgtcatcaa aacgcatgac gattgtacgc ccgatggagt tatccacaaa gccattgccc 180
 tctggcacct tggccgctaa aaccgggtat gccacatcct tctccctgag acgccgcgtc 240
 tccaaagcac gaacactgtc atgcacactc tgcataaacac cagttgcagc attgaacata 300
 tttgtcggtg gcattgccct acccgccaca tgcaccctcc tcgagatata ctgcggtgaa 360
 cgtggcccgct cctgagcaact gatcatactc agtgccgggt ggctcgcacc cttcctagtc 420
 tttcttttgg gtg 433

<210> 6957
 <211> 385

<212> DNA
 <213> Triticum aestivum
 <223> unsure at all n locations
 <223> Clone ID: LIB104-012-Q1-E1-G9
 <400> 6957

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 aaaagggcaa atctgaaccg aagattggca tccaagaact ccccttgcc aacttcaaga 120
 aaatgttaaa tatcaggacc agcaggggaa aattaggagg tcatccacaa tggatctcct 180
 ttgtgtctca aaccagcttc tccgtgtcct tggttattta cttgaacgaa actgaaactg 240
 aaaactgtga ggatcgaact tcgatgtcct tagagctact ctgttttaac cttggtttac 300
 catctcttct tctttcactg tatgctttgt ttttcgcctt caaagatgcg attgggccaa 360
 cgcttctagt cctcangcaa gacat 385

<210> 6958
 <211> 449
 <212> DNA
 <213> Triticum aestivum
 <223> unsure at all n locations
 <223> Clone ID: LIB104-012-Q1-E1-H1
 <400> 6958

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 cggggagcac aagaaggacg gcgagcacia ggaggcatg atggagaaga tcaaggacaa 120
 gatcagcggc gacggccacg gcgacggcaa gaaggacggc gaccacaagg agaagaagga 180
 caagaagaag aagaaggaca agaagcacgg cgagggccac aaggacgacg acggccacgg 240
 cagcagcagc agcgacagcg acagcgactg agccagctcc ggccgcgctc cggcagcagc 300
 gtgcagtgtg ggcgagatcg atgaacgctt gggaagaagt tggcatacat atatgttgca 360
 gggtttgag cgtgtggtag catatgtatg taatgcgtga catgtctcat ggatcntgtg 420
 atgtataata attagccggc tgcactgca 449

<210> 6959
 <211> 432
 <212> DNA
 <213> Triticum aestivum

<223> unsure at all n locations
<223> Clone ID: LIB104-012-Q1-E1-H10

<400> 6959

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acatacgtca ttccctttgt catcgggatg ttacttgccc gagattcgat cgtcgggatc 120
atcataccta gttcaatctc gttatcggca agtctctttg ctctgtccgt aacgcatcat 180
cccgcacta actcattatt cacattgctt gcaaggctta tagtgatgtg tattaccgag 240
agggcccaga gatacctatc cgatactcgg agtgacaaat cctaactctg atctatgcc 300
acccaacaaa caccttcgga gacacctgta gagcgtcntt ataaatcacc gggttacgttg 360
tgacgtttga tagcacacaa ggtgttcccc cggtattcga gagttgcata atctcatagt 420
cagaggaata tg 432

<210> 6960
<211> 404
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-012-Q1-E1-H11

<400> 6960

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gacggcgggt gcaaccgcgg gtcctttcac agggcctaca attggattgt ggagaatggc 120
ggccttacca cggcagcgga ttaccatac acggcgggtga ggggcgcctg caaccgcgcc 180
aagtccgcc atcacaccgt caagatcctt ggcggcggcg tgatcccgcc caggaacgag 240
cccgaatgc aggtcgccgt ctccgggcag cccatcggcg tggctatcga ggtcggcagc 300
ggcatgcagt tctacaagag cggcgtctac tcgggcccct gcgggacaaa tcttgctcac 360
gccgtcacca tcgtcggcta cggcgtcgat gccctactg gggc 404

<210> 6961
<211> 411
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-012-Q1-E1-H2

<400> 6961

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ctcgaggaga tcaccagttg ggggttcgtc gatgccatgt tcaatatcga cattgagcat 120
ttggacaaca tgaacaagag caaggagcat gggttcctcg gcttccgtaa caccgtcaac 180
tccttcaacg cttggatcga taagatgaag gcttccaagg ttgttccgtg atgctcttat 240
tgtctagtat ctattgttgt ctacagcata tgctactgca tcccatttta tcaactcattt 300
ataaatttac ttctgaaatt agttacatcc catcatttgt gccaaatgtt gtaatctaga 360
ataagccaga accaaataaa gctcccaagt tgtaaatcga ttatctgtgc t 411

<210> 6962

<211> 391

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-012-Q1-E1-H4

<400> 6962

gacctccgca gacactgtgg acctcaagcc aacgaacaac gacactggcg aactcatcat 60
gcaccttgag tgggttaacc tcccccaag catgtcacag tgaattgatt tgacttgcaa 120
agggagggca gctaattgtc gccttttgtg cttctaattgt tgctcctcg atatatgatc 180
tatgaagata attaagcga gcctagctca ttcgttacat aacaccacc gtaatgattt 240
gtggattaca acagcatggt gagtatagaa taggagcatc ttcgtgatga gatccgcaca 300
tcatcacagt gggtgctacg taatgcatgt gatatactta tgctgctggg ggtaatgcat 360
gctttcagtt ttggttctgc atatattgta t 391

<210> 6963

<211> 416

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-012-Q1-E1-H6

<400> 6963

acggggtaca gatacggcgg cattatagat actcggatga acgcaaggga aaactggcag 60
gcttttccga tccagtgaat tagtgctggc tgccaaacgt ttgaaagagt agattatttt 120

ttcaaaagag tctggctgcc gggttgagcc cctttacttt tgccggaggg ttattatagt 180
 ggtgtgggat tcgatgcaac gataggttac agagacttta tatgatacgg ttagttttcc 240
 catTTgcatt tgcaggacta gttatgacct cccctgtggt tcttgggaga tttcctttct 300
 ttactgttgt agaagtgcaa aaatgtcttc gtatgtacta gctacatata ggtagtagta 360
 gctcgtacaa tgggtttagt agaacacacc attgtcatgt gctgttacct gcactt 416

<210> 6964
 <211> 367
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-012-Q1-E1-H8
 <400> 6964

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 tcatctcctt ctgcaacgcc aaccggggc tcatgaagga cgtcgccaag gtcttctgaa 120
 tcagttcatt tcacctcagc cgtccgatcc aggagccgat ccatctacgt acggcttcgt 180
 atatcaattt catgcaacta cctactccgg tcccgatcca gcctcagctt cacctgaggc 240
 cggccctaatt tttgtttgat caatTTTTTg ctactagtag taactagtga tgatcactgt 300
 tgcaccattt atttatttta ttcggtcaca actttccagt gtttcttttc tttctctacc 360
 tttttgt 367

<210> 6965
 <211> 406
 <212> DNA
 <213> Triticum aestivum
 <223> unsure at all n locations
 <223> Clone ID: LIB104-012-Q1-E1-H9
 <400> 6965

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 ataatttagt tgctaacccc ttcatatctt tccaggattt acgggtcttt gatctttcct 120
 ccatagccgc tataatctct ggctgtgct tttctcttag ctcttgcaat cccattttct 180
 tgactgactg aaaaccata caagctgtca atacaagttg gctgctgtca aaggtagagc 240
 cagcaagaga ctgcagtaac gtaattgcat ctccagcacc ctttgtggtc accaaggcan 300

gccctaaaag ttaacataaa agatatagtg ttgggtagac atcaaagttt agtcaaata 360
 acaaacaata ggacatagta acattttcag attaatacaa aaacag 406

<210> 6966
 <211> 377
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-013-Q1-E1-A11
 <400> 6966

gtcgacgtcg tcaagaaggg ttacgtcga atccacagct cagggttcag ggacttcctg 60
 ctcaagccag agctgctccg tgcgattcag gactgtgggt ttgagcatcc ttccgaagtg 120
 caacatgaat gcatccctca agccattctc ggaatggatg ttatctgtca agcaaaatct 180
 gggatgggca agactgctgt ttttgcctc tcaactctcc agcagattga tccggttgct 240
 gggcaagtag ctgcacttgt gttatgccat acacgagagt tagcatacca gatttgcaat 300
 gaatttgaga ggtttagcaa gtacctgtca gaaacaaaag ttgctgtctt ctatgggtggc 360
 gttcacataa aaaaaca 377

<210> 6967
 <211> 342
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-013-Q1-E1-A9
 <400> 6967

aatccttaac cctttaaaaa agctgttaat aacaaacgcc tccgcctaata ccccaaagg 60
 caatcaaacg ggccggttgg attaccatgt ccgttttgat gaaaacccca ataagaggac 120
 acgatctctg ctttgacaag acgtgcaaat aaaactgcat cttgaaacat ggagcaagag 180
 gcttaaaaat agttcgaaat aatgaccggg cagcgacgtg atgtgacgct acaaaagttg 240
 tcagtagatt ggactcaaga aatattatac tctctgcgga tatatgtggg acttggtttg 300
 cagagccgga cacgtttttt atgttcgaag gctattttgg ag 342

<210> 6968
 <211> 367

<212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-013-Q1-E1-B11
 <400> 6968

gacggggaca ttcagagaga tactgccatg catcattctg ccgttacatt tattatgaca 60
 cgcttcatca catgtcatat tgctttgcat gatcatgtag atgacatcgt atgtgtggca 120
 aagccacctt tcacaattca ttcatacatg tcagtcttga ttcattgcac atcccggtag 180
 accgctggag gcattcatat agagtcatat tttgtgctaa atagttagtt gtaattctag 240
 agttgtaagt agataaaagt gtgatgatca tcattattag agcattgtcc cagtgcagca 300
 aagatgatgg agactatgat tctcccacaa gtcgggatga gactccgggt gaaaaagcat 360
 gtgttta 367

<210> 6969
 <211> 336
 <212> DNA
 <213> Triticum aestivum
 <223> unsure at all n locations
 <223> Clone ID: LIB104-013-Q1-E1-B5
 <400> 6969

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 gtttagggag agtatgtag gataaaccac gtatatgggt gtcgtgcgcg cagccgtggc 120
 tggctagcta catgcgtggc cgggtgatct ttcgtgtgcg catgctagtt ggtagttgg 180
 ctttgtggcc ggtgcgctgt gtgtgcatgc acgatgctat gcaagtttgt tagtcacgga 240
 tagactcccg ggaggtgagc cagatgtgag tggccgggtg tgacggccaa ctaagtgggc 300
 gtgcatgcaa gtcattggtg gcgtgcgtgt gtgtaa 336

<210> 6970
 <211> 378
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-013-Q1-E1-B9
 <400> 6970

ccccgagcac gcttgtacgt gatacctttc aacttgccaa agagaaagct ccgatgcatta 60
 tcttcataga tgaaatcgat gccattggta caaagcgttt cgacaggtac aaatcttttt 120
 ctgattccag ttcattgtatt tctgcacttt ctcatgtatt tgctcaaata acattctttg 180
 gttgagagta cagtgaagtc agcggagaca gggaagtgcaggactatg ttggagttgc 240
 tcaatcaact tgacggattc agtagcgatg aacgtattaa ggtgagtgtc tttatccatt 300
 ctaaggacta atcactactgg tcttaaaaat cgttctcaaa gaaacagtaa caaccatacc 360
 tttctatttt ttcaggtg 378

<210> 6971
 <211> 62
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-013-Q1-E1-C2
 <400> 6971

gactcccgagg cgcaggggga tctccacagt gaggccgacc aggcctctgca tgcgacccat 60
 ac 62

<210> 6972
 <211> 359
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-013-Q1-E1-C4
 <400> 6972

gacggtgatg ctcatgttgt cgttgacatg tcgtctatgt gcattggcat gagattcgtg 60
 aacagccaat gcatgggtcg ctactggacg tcattcatag ctcttggcag agtcgcttcc 120
 caggcgagtg ttgccagatt cgacgggcat ttttgagatc caggaccaac ctattgggtg 180
 tatttgagga ggaccttggc aagccgggag gcatactcat ccagacagtg acgagagatg 240
 acatctgcgg tgttcatctc ggagcacaag cctgcagaga taaagccatg ggaggagcat 300
 ggaggccaga tcaagctcat agccgatgac cagaacactc cgggattctt taagtgcc 359

<210> 6973
 <211> 376
 <212> DNA

tggaatata acacttagag caaaagaaca agtaatagtt acaactatat gcatatttgg 60
 gtggtggagg ctctacggtt aatatgggtt tgcgaaaagc catttttttt cctacaataa 120
 aggaatatat tttgtttaac tattatgtta cttgataaac aatgagaagg ttcctccgac 180
 tcaatcccaa ttaagcagta ttaataaacc aacaaactaa ttacagtgt tgagatcaga 240
 ataataattc aagaaccaga tactcaagat gtcgataacc ggggacacga ctaaccatga 300
 ctactttgta cactctgtaa aggtttgaac acttttcccc ataagactc 349

<210> 6976
 <211> 163
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-013-Q1-E1-E6

<400> 6976
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 gcttcacac ggatgtcct cagttcggcc gatgcgataa tgaataagcc gatgtgcttt 120
 ggtgtaactc caacttgtgg aggatcataa cgctcaaaac tta 163

<210> 6977
 <211> 417
 <212> DNA
 <213> Triticum aestivum

<223> unsure at all n locations
 <223> Clone ID: LIB104-013-Q1-E1-E9

<400> 6977
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 aatatgggtt tgcgaaaagc catttttttt cctacaataa aggaatatat tttgtttaac 180
 tattatgtta gttgataaac aatgagaagg ttcctccgac tcaatcccaa ttaagcagta 240
 ttaataaacc aacaaactaa tttagagtgt tgagatcaga ataataattc aagaaccaga 300
 tactcaagat gtccataacc ggggacacga ctaaccatga ttagtttgta cactctgtag 360
 aggtttgagc acttttcccc acaagactcg atctcctccg ttggatttct cacacta 417

<210> 6978
 <211> 420
 <212> DNA
 <213> Triticum aestivum

 <223> unsure at all n locations
 <223> Clone ID: LIB104-013-Q1-E1-F9

<400> 6978

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 gctgtacatg ggcacgggtg agccggacga gcttcactta gattaggttt catgttgcac 180
 gtaataatat gtatttggtg ttttgaaatt atgtttgtgg ttgtggaatc attttttata 240
 agatgtccga tcaatatcca cggacgcacc gcgggtgggg gccggatttt ggtgtttgtg 300
 gttgtacatg ctttaagtgt gcatgcaata cttgatatag tggagacata gtcagatatt 360
 tgtcaggaag tgtcagctgt atatagaaat gcattgcaca aacgaatcct ttcccacctt 420

<210> 6979
 <211> 287
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: LIB104-013-Q1-E1-G10

<400> 6979

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 atgttgcgtc catgtcatgt ttgcacacat actgaacacc attttctgta aactgttcga 120
 gtccatgtt gaactgagaa tgttttgcct gttttggttg tgatcaaaaa ctatccagat 180
 tctagtatgt gttgttccac ctacatcacc gtcacgttcg gcaaggcctt ctggattaat 240
 gataaagtga tcagctcatc accggagaaa aaatcggccg ccctaaa 287

<210> 6980
 <211> 381
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: LIB104-013-Q1-E1-G11

 <400> 6980

ctcacgggtcg acgggaaact taacatagac tcggttttacg gtgagtggca tgccgagcga 60
 ccgtgtgggg tcgagccgtg gaggaagggtg agacacgaac acgacagacg tgattttaa 120
 gttgggttttg ctcgatggcg cgatccaaca aaatgaaacg ttggttttctc tccatttcca 180
 ttttttctac ggaaaaacgg aaactatcca ctccattttc attcctattc caaggttgcc 240
 ccgttacaac attccatcaa atacaaagga aaactaacca ctacaagaaa tatgtcaact 300
 tgtgaccttg actattggtc actgaaaggt cattgttttt catttgcgac ctttttgta 360
 ccaaaaatag aagggtcaaaa g 381

<210> 6981
 <211> 371
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-013-Q1-E1-G12
 <400> 6981

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 ctcgatggcg cgatccaaca aaatgaaacg ttggttttctc tccatttcca ttttttctac 180
 ggaaaaacgg aaactatcca ctccattttc attcctattc caaggttgcc ccgttacaac 240
 attccatcaa atacaaagga aaactaacca ctacaagaaa tatgtcaact tgtgaccttg 300
 actattggtc actgaaaggt cattgttttt catttgcgac ctttttgta ccaaaaatag 360
 aatgtcaaaa g 371

<210> 6982
 <211> 273
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-013-Q1-E1-G9
 <400> 6982

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 acgagcgctt cgtggtccag ttcccggacg ccaagccgct tgacaaaggc gcgcccctgc 120
 tgtgcaccgg caacaccggt gtacaacccc atcaagtacc acgggcgtaa cgccccggga 180

atgcactcgg cgtgctgagc ctaggctggc tcagtcacat caccgtcaag ttcggcaagg 240
ccttcgggat taatgtgaca gtgatcagct cat 273

<210> 6983
<211> 316
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-013-Q1-E1-H10

<400> 6983

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tgaggagaac ggagccatat ctatcagctc atcgcccgat ttagaccatc aatccgttcg 120
gggtcgacac ctatctcaac agcaaacga cgctgtatat gggaatgacc ttcactcgct 180
cccaagatta cgcgctgcgc ctaagccggc ccatgaacat cagctttagt gcggaatccc 240
cgcatataaa actacacatc tgattcgata tgatcatcct gtgtccatag attcacccat 300
gatcgttgat gcaaaa 316

<210> 6984
<211> 384
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-013-Q1-E1-H12

<400> 6984

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aggcaacca attttatttg tgtttttttg tttttgttct tgtttagtaa taaatcttgc 120
gtctaccttc tgtttagatg tgtttttatg ttttaattag tgtttgtgcc aagtagaacc 180
tataggataa cctatggtga tagttaattt gattctgcgg aaaaacagaa actttgcgcg 240
cacgaaaata attttgtaa ttcacacaaa cgagcttttt cgttgattct tttttctgta 300
gatcaataga caaattgctc aggatttcct attttggtag gattttaaaa gttccagaag 360
tattcgaggg ttacagattg ctac 384

<210> 6985
<211> 397
<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-013-Q1-E1-H9

<400> 6985

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gggaaaggca tccccctcct ttccgtcctt ccgttcaatt gggtaaactt taacttgga   120
gctatatttt taatcgccac aatataagtg ctttgcttgg agcgtcatgt atgatattag   180
tatttgcttt ttagttttcc acaatcatcc ttgctgtaca caccttttgg gagaagccta   240
cttgattaaa tttattagaa tactctatgt gcttcactta tatcttttga gctagatagt   300
ttttgctcta gtgcttcact tatatctttt agagcacggc gatggcttaa tttgtagaaa   360
ttgctagtct ctcatgcttc acttatatta ttttgag                               397
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<210> 6986

<211> 400

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-014-Q1-E1-A10

<400> 6986

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tccaagatg ctgttcgtca gatccaagat tggggagggc gccacggca aggtctacaa   120
gggcaagtat ggtgatcaga ttgtagccat aagagttctc aacagtggcg gtacccccga   180
acaaaaagta acacttgaag atcgtttcat ccgagaagta aatatgatgt gtaaagtga   240
acatgataat cttgtcaagt tcattggagc ctgcaaggaa ccattgatgg tgattgtgag   300
tgagctgcta ccagggatgt ctctgaaaaa ttacttgaac agcatccggc ccagccaact   360
agatatgcat actgcattat gctatgcact caacatagct                               400
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<210> 6987

<211> 412

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-014-Q1-E1-A12

<400> 6987

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 gtgcccccca aggggagtct gaattggact aggggagggg ggcgcggccc ctcttttctt 180
 ctccctcttc ctctctttct ttcccccttc ccccttccta gtaggactag gaaaggctga 240
 atcctactcc tactaggagg aggattcctc ctctccttgg gcgcaccaag ggctgaccgg 300
 cctccccctt tgctccttta tatacagggg cagggggcac cctagataac acaaattgat 360
 tgttccaagc cgtgtgcggt gccccctcc accatattct acctcgttca ta 412

<210> 6988
 <211> 433
 <212> DNA
 <213> Triticum aestivum
 <223> unsure at all n locations
 <223> Clone ID: LIB104-014-Q1-E1-A2
 <400> 6988

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 aacttaatta caaatcttac caagcaagga acttaacatc agaacctaac aacaatatcc 120
 accaattatc aacaaaggaa tgggtgggggt taaactgcag caaccaacct ttaacccggt 180
 ggctaacca aactacgact gcaagcaact cttttgaggt ggcgcacacg agtccacata 240
 ttcaccatat caatacacca ctatggatcc gctcccgctt ccctacgaga acgccatcca 300
 tagcactcac gcttatcttg tgcaatttaa aagtatccac tttcacttgt ctatgaactg 360
 tacaagcaac ccagaagtcc ttttccgagg acacggctat tcgaatagat gatgttaacc 420
 ctgcangggg gta 433

<210> 6989
 <211> 218
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-014-Q1-E1-A3
 <400> 6989

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gttttaaggg tgcagatgta ctataacacg taagtcttac tatccaaatg cctcaccata 180
ctcttttgag gtggcgacaca cgaatcaacg gccgcacc 218

<210> 6990
<211> 432
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-014-Q1-E1-A4

<400> 6990

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ctcccaatcc ggtcccaatg attgcctcca aaaacctcca aaaaaccccc ggcccccccc 120
aatggcgccc cccttcttct caacccccctt caagccctac gtctaccaga gccaacaggg 180
atctgtgacg gcgtttcaga tatccggtgg ggatgtgcag gtctgcacg tgatggtgaa 240
gtcgcaggac aagttgactg cgaaaccag tacaatgtgt tacatgtccg ggaacattca 300
gatggacaac aattacttgc ctgaaaacga tggaaggcgt gtggcagtgg atattttgga 360
aaaagcataa ccagcactgt tttcttcaat cctggccctg atgatggata tgtggggatt 420
tctgcgcat tt 432

<210> 6991
<211> 378
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-014-Q1-E1-A6

<400> 6991

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gattcgggag cagagcagct tctgttaaga aataaataaa gaggatcggg gctcgacaat 180
gttgtggcgg tgtgttgggt gtgattgttt gtttgttgca gtggctgcat tcaactggctg 240
ggcaccagga tctataagat aatgtgtacg tacgtacgta ctgtattcct gaacttgtac 300
tgtgacgagc gagactcgct ttgtaacgtg ctattctgtt gaaaaaaatc atgcgaacta 360
aaaaaaaaaa agcggcgg 378

<210> 6992
 <211> 364
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-014-Q1-E1-A7
 <400> 6992

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 acaacctcca cgtgcacggc atcgtacaca cgtcgggcgg caacgtgtcg atgacggcaa 120
 cccactccac gatccgtacc cgcgccgacg gcgacggcgt ctccatcttc aacgccacca 180
 aagtgtgggt ggaccacctg tccatggata attgcgagga cggcatgata gacgtgggtg 240
 ccatgtccac ggccgtcacc gtctccaaca cccacctggc ccaccacaac gacgtgatgt 300
 tcttcggcgc caccgatggg aaggaggagg acaaggatgat gcatgtcacc gtcgccttca 360
 acca 364

<210> 6993
 <211> 413
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-014-Q1-E1-A8
 <400> 6993

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 tgccgcaaga tgatgatggt gtggtggtcg gcgtcgcgag gatgtcatcc atgacaagat 180
 ggtccatggt gaccggcgct gcgccggtgt cggctgtggc acaacggact ccatgcgaga 240
 tggagcccga ctgtgcaaga agaaagatgg tggccatgca gtgccactat gtgaagatgg 300
 cgggtgtgaag ctgccacaag aagagtcggt gcgatgccga cgatggtggt gtgatgccat 360
 cgtcatcatg gaaagttggt gtgaagccaa caaagctgc ggtgcgatgc cac 413

<210> 6994
 <211> 405
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-014-Q1-E1-B1

<400> 6994

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acataggctg tctggaatgc catgaggccg ggattgggtg atgaaatctt caaagctatt 180
atattgggtc caagaaactt gcaatacatc aatattttta atttttttgc tgacaccaca 240
gctaccacct cttcactaaa tgacagatgt tgccagcaac tgcacatgga aggatttaat 300
gttatattat gtctactaat caataacgag ggagatcaaa ttactgctct caaatattca 360
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<210> 6995

<211> 430

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-014-Q1-E1-B10

<400> 6995

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tggcaattgt ggggtttctt ctgtttgcgc tcatatggag tattccagaa gtcctaata 240
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ctcttggggc cttttggggg tttcagcaag gctgggcaaa gtggctcagc ggtgtcatag 360
ataatgctct ctatccagtc ctttttcttg actatgtcaa gtccagtgtc ccagctctcg 420
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<210> 6996

<211> 400

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-014-Q1-E1-B11

<400> 6996

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gcactaggta ttacgcctag atcggatatg aactccttca tttgcttctt ccgaagcagc 240
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gacagctcca ccattcaata taaatatgta tccggtttgt gacttacagt catccgaatc 360
ggtgtcaaag cttgcatcga cgtaaccatt tacgacaaga 400

<210> 6997
<211> 334
<212> DNA
<213> Triticum aestivum
<223> Clone ID: LIB104-014-Q1-E1-B2
<400> 6997

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caatattttt aatttttttg ctgataccag agctaccacc tcttcactaa atgacatagg 240
ttgccagcaa ctgcacatgg aatgatttaa tgttatatta tgtctactat tcaataacga 300
gggagattat attactgctc tcaaatattc acct 334

<210> 6998
<211> 379
<212> DNA
<213> Triticum aestivum
<223> Clone ID: LIB104-014-Q1-E1-B3
<400> 6998

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aggttggtac agtctaccgg ttcgtaagg tctagcgctt ctgaaagact atgtctcgat 180
catccgtttc tcaaacacca tgcagtgcga gaaaaccaac ggaggaggctc gagtcttgtg 240

gggaaaagtg cgcaaacctc tgcagagtgc atacactaat catggttagc cgagtcctcg 300
 gttatggaca tattgagtat ctagtacctg gattatcatg tgaatctcaa catgttactc 360
 taaaattaat tttgttggg 379

<210> 6999
 <211> 346
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-014-Q1-E1-B4
 <400> 6999

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 tccgtttctc atccaccatg cagtgcgaga aaaccaacgg atgatgtcga gtcttgtggg 240
 gaaaagtgcg caaacctctg cacagtgcac acactaatca tggttagcgg agtcctcggt 300
 tatcgacata ttgagtatct actacctgga ttatcatgta agtctc 346

<210> 7000
 <211> 389
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-014-Q1-E1-B5
 <400> 7000

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 gttggcagag tctacacgtg cttaaggtgc taccgcctct gagcagacta tgtcacgatg 180
 atccgtttct caaacaccat gcagtgcgag aacatcaact gacgaggtcg agtcttgtca 240
 ggaatagtgc tcatacctct gcagcgtgta tacactaatc atggttaccc cagtcctcgg 300
 ttatggacat attgagtatc taatacctgg attatcaagt taatcacaac atgttactct 360
 aagaataatt ttggtggggt ctgtttaat 389

<210> 7001
 <211> 363
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: LIB104-014-Q1-E1-B7

 <400> 7001

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 ggtgaacctc caaatgatgc ccacagtcac tttctcacc acgagaatct tagatataag 180
 atgcaagctc aagatcagta tgaagctcaa gatggcgccc attattttca gattaaccct 240
 cgtccgtcca cataccaaga cgacttgtcg cgtctaacca caaagattgc tttcaaactc 300
 aaaacgaagg tcgattcagt ctaaatcgaa gtggtagcct aagactcggg gtaagtactc 360
 gta 363

<210> 7002
 <211> 409
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: LIB104-014-Q1-E1-B9

 <400> 7002

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 tgggtggtgaa cctccaaatg atgcccaagg tcaagttctc cccctcgagc aagttcaaga 180
 ccatgagcaa gctcaagatc aagaacaagc tcaagacggc gctcaagata atcaagttaa 240
 ccctcctcct tccacatccg aagaggaatt agagcgtcgt gccgcgaaga ttgcttccaa 300
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 cactcgtaga caattaacaa actattgtga acatcacgcc tttgtcccc 409

<210> 7003
 <211> 388
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: LIB104-014-Q1-E1-C1

<400> 7003

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cgaagatatt agatgaacat cacatcctgt atgcagcaac ggatgcctac ctttgtttaa 240
atatctacaa ggggttggatg aagaagcgga gcccggtgtc tagttcaagc aaagaagtgt 300
cggcgaagag gaagaggaag agggattagg tcgaagtcga ggacgtggac tcggactccg 360
aataggtggg aattccgtcg ctcatgct 388

<210> 7004

<211> 343

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-014-Q1-E1-C12

<400> 7004

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tccttccttc tttcccttgt ttttgtttgt cagcttcatt ggattggatc atatatacaa 180
gccgcgttat ttgtttgctt ttgtcctgta gtttgccttt tgttttagatg tgttgagtaa 240
caagtgcaat gcaagtttgc actcgtgtgt aaaatgcttg atttgggttc atgaatagaa 300
aatttcaacc tgtcaataca gttcactcaa catatatgaa atc 343

<210> 7005

<211> 402

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-014-Q1-E1-C2

<400> 7005

cgggtcgcgc cctacctgca ttacatcctc ggcgcgcagt acgagccgga gcacgtccgg 60
gagcaagaac ttcacgggcc cgttcaagca ccaatggcca tccgcaacca tatccgcac 120
acagtccttt ggagcacaat tgacatattt gcagcggacg tgtgatgagc agttttccat 180

ccaccgtgca aaagacccag agctgctcgg cggcatgata gatgaccac ctgaagagcc 240
gccatcacag tgctcatcga gagcctgatg ccccgcaatg aatgggcaga ggacctccgc 300
gattcagtca agacaaaggc agcctgcggc ttcattcattg cccgcaacgg ccatttcaac 360
ctcgattccg atgatgtggt ggccaagatt gagcgcatcc tt 402

<210> 7006
<211> 406
<212> DNA
<213> Triticum aestivum

<223> unsure at all n locations
<223> Clone ID: LIB104-014-Q1-E1-C4

<400> 7006

cgggtcgacc ggggtttagg tgggctgcag gtgggctgag aagaggagtt gggccgagag 60
gagagaagag aagagaagcc cggcggtagt ttcggagacc gaaacgtccg acaattaaac 120
cggcaacagt gccgctatgt taaacgggtg ggctatcaaa cgaactccga atgcgacgaa 180
acttggcagg cggctctgtct acactataat aagaccacac gacaagttgc aaccatttcc 240
gagaacattt ttatgccact aataaaataa tattacggag gtgccgcggg cgcgtgcgag 300
tgtagtcggg ctcagaacgg acaacggaga gaaccggcgg aacacgaacg gatgcaagtt 360
ttgaaaaaca tgcagatgan atacagatga agtgcagatg atgaca 406

<210> 7007
<211> 396
<212> DNA
<213> Triticum aestivum

<223> unsure at all n locations
<223> Clone ID: LIB104-014-Q1-E1-D1

<400> 7007

ccgggtcgac cggccaggcc aacgctgtgt ggtggtggtg gaggaccagc atggcggcac 60
cctgaagacg ctgctgttcc agcaccggga caagaagctg ccttacaaga agtggttcca 120
gctggcgctg gacatggcga gagggtgag ctacctgcac tcgcagaaga tcgtgcaccg 180
ggacgtaaag gcggaagaaca tgctgctgga caggaagaag tcggtgaaga tcgcggactt 240
tggggtggcc cgtgtggagg cgcaggacga cgacaacatg acggggcaga cgggcacgct 300

ggggtacatg gcccccgagg tgctggangg gcngccgtac gaacacaagt gcgacgtgta 360
cagcttcggc gtcctgctgt gggagacgta ctgctg 396

<210> 7008
<211> 283
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-014-Q1-E1-D11

<400> 7008

acgatgctaa ctataacgac acgtccgtca tctccctcca ccccgacacc atattagagg 60
ctccagctct tcttcggcga gaccttcctt ctcaacggta acacgacgaa tgactccatc 120
tgcattgttc ttgtgatta catctgtgat gagcctaaag tcataattat gagatctgtc 180
aagagttaac tttagattga aagatgtgtc atgtgggtgtc tgttcatcac tacgcctagt 240
ttcaatacat tacacgagtg tatataactta cttttaacaa tac 283

<210> 7009
<211> 157
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-014-Q1-E1-D2

<400> 7009

acttcaatcg cagccccttc tccagctctg ttcttatgcg gcaataactt cgctggacga 60
ggataattcc ttcacatca ccgactttct gttaatggtt ttgttcggac tcgttaacta 120
cggcattaca gtgcataccg gctcccggtg atacatg 157

<210> 7010
<211> 384
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-014-Q1-E1-D9

<400> 7010

gacgggagaa gtaagacttc agacgccgcc gcaaggcttg cacaccacaa gatccaagat 60
gtcaatatga ctgtactcca gtttcaacac gtcacatcac attgtcattg ccagggcttt 120

ccaaaaagcc acattagttt gataggccaa atgcagacaa aatacathtt gatatacatg 180
 tgcacaggct catgtacatc caggagttag tagagtgtt cggacaactt acagcctgct 240
 cactcaccta gattaccctc aaggcgatca tgacgctggt cgatgcactt gagctgttgc 300
 agggccacaa aagggaacc gatggcgta acggagtcgg caatctattg gataaagtcc 360
 taaatgcgat ttaatgcgac gtca 384

<210> 7011
 <211> 360
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-014-Q1-E1-E3
 <400> 7011

gggtgattatc catagactat acgggcacaa tagatgtaca tctacatcat ccagggaaca 60
 caggggcaca tcgtatctta aagggtacgg tggttaagat gagttcatac gtacgaattc 120
 gggttgatgta atctctcagc aatctgctga aaagcattca agtacgcaac attttatata 180
 gagattgcta tttgactggt ccgcttagtc acagtgtgct ctgtaaatac attagctcat 240
 cagacactgt ttaccgtcta cacatagcga acatcagatt ctaatctcaa gtaatgagtg 300
 cggtgtttac ttacgctcgc agcttcatat cctcgaactg attcaaacgc cgaatttgct 360

<210> 7012
 <211> 322
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-014-Q1-E1-E6
 <400> 7012

agacgggaca tcctccgct ctagtcatgt gagtatcact atttcctgag ctgctcgagt 60
 gagattttac attctgttcg tggatttata tcgtagtctg ttcttcatac ctagaatcca 120
 cgagaatacc aatcaaaaaga tggtacggtt agttcatccc atccgaatca atctgagcct 180
 tgcataaact tttctgtaat agccttggtg atcttgcggt tgcactctacg tgttcaattg 240
 ctggtcataa cgtctagtcc tctaaaattg ctacttctgt tcacatcttg tcacaccgta 300
 actgcaccaa catcatctca cc 322

<210> 7013
 <211> 327
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: LIB104-014-Q1-E1-F10

 <400> 7013

ggctcgacggg aaaaagtagt gctaggggtt gagcgagatg gcgaggtgga agaggagata 60
 atgaccaggt ggggagaggt atttataagg agcgcggtgt agtgaatta cgcaggtgcc 120
 cctagcgggt cacatctgga tgacatgtgg aaagcatgca acttactgaa aattgagcca 180
 atttcccccc ggccccctgt ttgggttgaa ggtctttccg gcttcacggt ttttcaggaa 240
 aaagggataa taccattaaa attgggttta atgggtgtacc cctaaatctt cacctaacag 300
 ggacccatta aaaactttca actggtt 327

<210> 7014
 <211> 312
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: LIB104-014-Q1-E1-F3

 <400> 7014

cgacaccgaa gaggcgcaga gcgaatgcaa tggcgatggc gcggagcctg ggcagctgtc 60
 ctgcgcagcc aaagtcgatt ccaagtgggt caagaggatc cttgcaaata ggcagtcggc 120
 acaccggtca cgcgtgcgca agctgcagta catctcggag cttgagcgcg cgtctcgtcg 180
 ctcaacatgg aggtgtccgc attgtaccg cgtgtggcat tcctcgacca cgagcgctca 240
 ctgctgaagc cggggaacac ccacctcaga tagagcattg cggcgctcac gcgggacatg 300
 atcttcaaag at 312

<210> 7015
 <211> 347
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: LIB104-014-Q1-E1-F4

 <400> 7015

cgggatcatg ataacgagaa atatatatat aggataataa ggtggtgtat tgccgccatg 60
 tccgttgagc tgatgtttgt ttcagctaga gaaatcgta cgcgcgtca taatttttcg 120
 acgctatgga aaataataac tactggtata tcactctata tcaaaccggc ttgtgaaata 180
 aatggttgcg ccccggtttt ttgtcgtcaa aaaaaaaaaac aaataaaatg gaaatatact 240
 tttgcgatca agtagatcaa aacttaagta gccgttggtg caatctcata gatcctgaat 300
 cgatgtcgcc acaatatgtt atacaggacg cagtttgaaa ccttcat 347

<210> 7016
 <211> 297
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-014-Q1-E1-F5
 <400> 7016

aattcgccag tcgacgggga taccgaactg gacgtgaaga cggacattgc ttgtttattt 60
 gctgaatttg gttcactttt ggataagcca tacatcaggg aatcattcag catgaatacc 120
 attgataagg gcgggagttt acctggcacc gcacagttgc cgtgtcaggc ggcgctccat 180
 gggcgcgctt caaccgctag tattacacca catgtgggtg catgttctct ttcacacaca 240
 ttatgtggta ccagagcaca aaaactcaaa ggtaacacta tggaacaaac aactcaa 297

<210> 7017
 <211> 421
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-014-Q1-E1-F7
 <400> 7017

gtacgatcca gaattcgccg gtcgacgggg atggacatag agcttatcac acccgatcat 60
 cacttggtgt ctgggcacga cgaactttgg caacggtgca tactcgggga gaacaatttt 120
 atcttgaaat ttagtgagag atcatcttat aatgctaccg tcaatcaaaa gcaaaataag 180
 atgcacgtac gctactgtga ggtgttgtcc ttctcttccc gccctcctct ttggtgtcct 240
 gcttaattcc cctacacgta tgctactcta cccaacacg ttggacgaca agggcatctc 300
 caccatatga tccatccatc ctccgtgcat gttgcctgcg ccatgcatgc gttgagctac 360

gacgaactac ccttctctac gtacccttct gtatgtgtat gtgtgtaaca gtatggttgt 420

g 421

<210> 7018

<211> 330

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-014-Q1-E1-F8

<400> 7018

tgtctggcag gatattgaca tgtgttgtgc gcggtgggca tattttcatc aggggtgctgt 60

gtctcggaga atctggggat cctgaaatga aattggagat gaggcgctac cgggagcctc 120

ggttctacac caaggtgtat acaggttgcc aatcgtaagg tcatgatggg aactcctttg 180

agctttctct ggtatcttcc agatgcattg gagcttatgt gaattgcatg acgagccatt 240

gccacatatg ttggctgtgg gacaaggta tatgcacagt agatacaggc tttcatgaga 300

ttctgaaca ttgtgcatta cagatccact 330

<210> 7019

<211> 232

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-014-Q1-E1-F9

<400> 7019

attcgccgtc gacgggcaat gatactcctg acctggcagt ccttcaccaa tgccatcgta 60

gcacaatcca atgccttgct ccgccaccg tctcccctcc ttgttactct ccgggccacc 120

tatgtgcacc cagatcttcc ttttctttct agcttcccgg ggtcttttgt gtctcccccg 180

gtggcggttt ggccgtcgca cctcgacgac attagccact gtgggatgaa tc 232

<210> 7020

<211> 332

<212> DNA

<213> Triticum aestivum

<223> unsure at all n locations

<223> Clone ID: LIB104-014-Q1-E1-H10

<400> 7020

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 caacgggtgga ctccatggtt gtgtgggaga ttcgaagtct ggatctcgag gtggtgatgg 120
 cctttctgag gtangccgcg gtatgggaca tcccatccat cgatatatca ggttcaatgc 180
 ggctcaatag gtgacacatg cgtctctttc ggagtcgtca ggcacttcct gtcgcccaga 240
 ggtgaagcct caggcggatg ctacgcacga cgtctcatgc ggaggcatca agtcatgcct 300
 gctnacagcg cgtgctgcat ggtgtttgtg at 332

<210> 7021

<211> 408

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-014-Q1-E1-H11

<400> 7021

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 atttgtttca cagccgctc gaggcagcac atttctagaa actatataga tatatatattg 120
 attttgattt ctacagaaat tttcttgtaa attagactga gataaaatca tttgtttgca 180
 ttctgctgag aatatagttt tctcttttcc ccatttttta tttttaaggc agactctcgg 240
 ccgacgacgt ctctagtct gcacgatga ttttttggt agtacttcta caaatcctat 300
 gtttcaaaaa gtttgctttg ccaagaggaa gtcacggata cgacattgag ctatgctcat 360
 gacgtgttgc cgctggatgt aagacgaaca atacttcgac accgcca 408

<210> 7022

<211> 383

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-014-Q1-E1-H12

<400> 7022

ggatccggat gacggatgag atcgaggagg cgaagctgag ctggttccag caggagatcg 60
 tgcagctggc ggcgggtgctg aacggcgacc accagctaag cagcctgcag gagaggatca 120
 gggagaggat gaacgtgagg gaaggcacct cctacatgag gagcgccgtg cggcgcttct 180

tcgaggccgg catgtcggcc aagaggatgg gcctcgccga cgacgaccag atcgtcaaga 240
 tgaggccctc ccttaccacc agaatgacct cctccctgc agatcaagat gatagtccgt 300
 agagagcaac gatgcataca tacataggat gaagattgat gttggaatta ccaaaatctt 360
 agtactacac atacatacat aga 383

<210> 7023
 <211> 326
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-014-Q1-E1-H2
 <400> 7023

gctgcagata gacgacataa gtccactggg agcaactaga ttcacgatat ctccgatgcc 60
 accgattccg acaataagct caacctgcac gacgaggatg aggctgaaga cgtgtcctag 120
 ggccccact tggggtttgt caatccctac agcaagatga tgattcctgc tctcacataa 180
 agtcctatcg cgatccctcc ctttgctctg gttgctgcga atatcagcct ggccggggagc 240
 atcatccgca gcatgagggt cactcatgac attctccact tctgttccgg ccatgtttgtg 300
 acagcggaca tccacgttat tgacgt 326

<210> 7024
 <211> 410
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-014-Q1-E1-H4
 <400> 7024

acgggacagt ggtgaggtaa tatgcttcac acaaaccgga gcttctcaca acaagcatga 60
 tgggttttcgg tagggaacgt cccacctttg aggacgaaac gatatccatt acctcttatt 120
 getctcaaat tttttctcgt gtcaacattg aacaacatga gtgttgtgtg attttttatg 180
 atttttcggg gtttgtttgg acatttttat gcattaagtg agttttcaat gcatttatgt 240
 gcataattca aatttgaact acatgcgcgt gctccagtgc atataaattc attgaaaaat 300
 caaatctttg tccttgggtg catgettaag tcccatgcaa gaaatgggaa tgaatttcaa 360
 acaccatggc accgttgatt gccggcaaaa cagtgaatg cctgggtttt 410

<210> 7025
 <211> 392
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: LIB104-014-Q1-E1-H8

 <400> 7025

gaatacctgc agcacgagaa ttcatggaa tgagcagtc gtagtcaag gcaatgccga 60
 gtcttatttt taaaaagtc caggaagaca attgtacttc gtcaacatgt gccatttgct 120
 tggaagacta cagtgttggg gaaaagataa ggggtgctgcc ttgtcgtcac aagttccatg 180
 ctgcttgctg ggacctgtgg ctacatcat ggaggacatt ctgccctgta tgcaagcgag 240
 atgcaaagtc tggaatgtca aatttccttc catcagagtc tacccttttg ctttcttctg 300
 ctattccctt gccagctgaa tcgacagctt tgtcttctt tcgttcaatg gtagcagcat 360
 ctctccaag gacaataagc cggcatcctt ca 392

<210> 7026
 <211> 428
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: LIB104-015-Q1-E1-A2

 <400> 7026

ccgggtcgac gggatgcagg agttcctcgt cgaattccgc gggccccaag aaagtctcta 60
 ccagggagggt gtatggaagg ttcggttaga actgccgat gcgtatcctt acaggtcccc 120
 ctcgattggg ttctttaata agatatatca ccgaatgtc gatgaactgt ctggctccgt 180
 ctgtttggat gtcattaacc agacatggag ccaatgttt gatcttgtca atgtgttcga 240
 agtcttcctt ccacaacttc tattatatcc aaatccttct gatccattga acggagaagc 300
 tgctgcactc ttgatgcgtg atcgccctgc ttatgagcaa aaagtgaaag aattctgcga 360
 gaaatatgcc aagccagagg atgcgggtat aacccagaa gataattcga gcgacgaaga 420
 gctgagcg 428

<210> 7027
 <211> 435
 <212> DNA

<213> *Triticum aestivum*
 <223> unsure at all n locations
 <223> Clone ID: LIB104-015-Q1-E1-A3

<400> 7027

cgggtcgacg ggggcgagga agccgcgcag cagagagcgt cgtcttcgga agaacagcag 60
 caggaaaaga taaatgaggt gcggggtctc ctgcacagtc tgacggagga gatgccgagt 120
 tttctgtcgg acgccaccat ccggcgtttc ctccgggcga ggagctggag cacggagcag 180
 gcaaccaagt ctctcaagga gactgtcaag tggaggcgtc agtacaggcc ggatgcaatt 240
 tcctgggacg acattccaga aacggagaac gaggcccga ggacacatgt ggccgactac 300
 cttgacaaga acggaagaag tgtcctcgta gcaaactgtc caatgaagtc taaagtttca 360
 gcanaggagc agatanagca cctggatat ctctggagt atctcgccac aaactcagcg 420
 gatgaacaag acgac 435

<210> 7028
 <211> 311
 <212> DNA
 <213> *Triticum aestivum*

<223> Clone ID: LIB104-015-Q1-E1-A4

<400> 7028

gggcgagaaa cagcgcagca gagagcgtcg tcttcgggag aacagcagca ggaagagata 60
 aatgaggtgc ggggtctcct cgacagtctg acggaggaga tgccgagttt tctgtcggac 120
 gccaccatcc ggcgtttcct ccgggcgagg agctggagca cggagcaagc aaccaagtct 180
 ctcaaggaga ctgtcaagtg gaggcgtcag tacaggccgg atgcaatttc ctgggacgac 240
 attccagaaa ctgggagcga ggcccggagg acacatgtgg gcgactacga tgacaagaac 300
 gggagagggt g 311

<210> 7029
 <211> 425
 <212> DNA
 <213> *Triticum aestivum*

<223> Clone ID: LIB104-015-Q1-E1-A5

<400> 7029

acgggcacac actccacgtc tactagcata acatggcata ataagcaaac gcggaagtaa 60
 ctcccaaagg tttgaaagta aacaggtaat aggtactacc tcaactactt cccatcccac 120
 aaattaatta gaatcctaata catgcaatgt gtgaggattt gatctaatagc aataaaactg 180
 ggtagtagaa aaggatatgat caaagtgtta cctgccttgc tgatgatccg ggaaacctag 240
 cgattcgaag taacaagcgg cgcacttcgg gtattctatc gcagacaaac aaacaagcat 300
 acaataagta ctcatctaata gcacgggtta aactcaaata agaggatcta aacagaagg 360
 tcaacttaag aactccggtt ggcaaaaaga atcagaacga atggaacaac gagagtcaaa 420
 cggcg 425

<210> 7030
 <211> 381
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-015-Q1-E1-A6
 <400> 7030

gacggggaag aaaacgaaga agaagacgaa gaagacgaag aagacgaaga agaagaagaa 60
 gaagaagaag aagaagaaga agaagaagaa gaagaagaag aagaagaaga agaagaagaa 120
 gaagaagaag aagaagaaga agaagaagaa gaagaagaag aagaagaaga agaagaagaa 180
 gaagaagaag aagaggaaga agaagaagaa gaagaagaag aagaagaaga agaagaagaa 240
 gaagaagaag aagaagaaga agaagaagaa gaagaagaag aagaagaaga agaagaagaa 300
 gaagaagaag aagaagaaga agatgaagaa gaagaagaag aagaagagga agaagaagat 360
 gaagaagaag aagatgatga t 381

<210> 7031
 <211> 147
 <212> DNA
 <213> Triticum aestivum
 <223> unsure at all n locations
 <223> Clone ID: LIB104-015-Q1-E1-A9
 <400> 7031

gacanacaca tgtcagggtg aaatgaaaac acagccgaca gatacagaaa gaactgcata 60

aattaagtat tcacttgata tcatcgatga acaaaanatt aaactctaata ggttgcccca 120
aagtttaagc atctgaaaga ggatagtt 147

<210> 7032
<211> 343
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-015-Q1-E1-B1

<400> 7032

cgggccgacc ggggtgcagca cacaagctat tatgggctct agcatagttg agtaggttac 60
atgatctctt gaagaggtgg gctagcagat gtaggggaaa gtaggtgtac cgggccatcc 120
agagtaaaga gtgattgttc ctgaaagact gtgtctcggc catccgtttc tcaaacaatca 180
tgcagtgcga gaatcaagcg gagggcgatcg agtcttgtgg ggagaaatgc gcaaacctct 240
acagagtgtg caaactaatc atgggttagcc gtgtccccgg ttatggacaa cttgagttac 300
tagtacctgg attatcattt gaattctatc accatgttac ttt 343

<210> 7033
<211> 445
<212> DNA
<213> Triticum aestivum

<223> unsure at all n locations
<223> Clone ID: LIB104-015-Q1-E1-B10

<400> 7033

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gggtgaagcc cgggtgggcat attttcatca gggagtcctg cttccaccag tctggggatt 120
ccaagaggaa agtgaaccgg acgcactacc gggagccaag gttttacacc aagggtgttta 180
aggaatgcc ctcctatgac caagatggga attcctttga gctttctctg gtaacttcca 240
agtgcattgg agcttatgtg aagagcaaga agaaccagaa ccagatatgt tggttatggg 300
agaaggtcaa gtgcacagaa gacaaaggct ttcagagatt cctggacaat gtgcagtaca 360
aatccacggg aatcctgcgt taagaccgct tgtttgggga gggttatgtc agcaccgggtg 420
gattcgagac cacanaagaa tttgt 445

<210> 7034
 <211> 182
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: LIB104-015-Q1-E1-B2

 <400> 7034

 cgggtcaagca aaccgggtcg gacggcaatg gaagatatag gtgtgatatg tcaagtagtg 60
 gacagataag ccaaccactg gatgtggttt tcagggattt ttgcagtggg atttgtaggg 120
 tactatgctg cgctgtgttt ggaatttgaa ataaaacgat gggagatgtg ccacgctcat 180
 aa 182

<210> 7035
 <211> 214
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: LIB104-015-Q1-E1-B3

 <400> 7035

 gggccgacgg ggttcacaag tggcgggtccg taaaagacaa cgtttcaatt tgcgtacaag 60
 gcgttcaaag ttccctggcc tcatgttatg aagcgcacaa gctcagaaat tccactgaat 120
 gatttccagt ttacaatgaa ctggtaacga gttgcttggg gttacagata ggctactgga 180
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 <400> 7036

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 ataggcgagg gtgaggagaa tggcgaggat gatgaggaag aacaagagga gcaggagggg 180
 ggaggaggtg acgacgatga tgatgacgac gacaacgacg atgacaatga ggacgacgac 240

gatgatgacg atgatgtcgc tgctgaagac gatggagatg gagtagaaga ggaggatgat 300
gacgatgagg aggaggagga cgatgaagac ttgctccagc ccccgaaaga gaggaagaag 360
tgaagccctt cgacgcggct gctttagtca acatgccacg agatgtgcct gtccttcac 419

<210> 7037
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<212> DNA
<213> Triticum aestivum
<223> Clone ID: LIB104-015-Q1-E1-B8
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tgcgaggaca agaatgagat gatcctgggc tatgaccaca tggcccatgg aactctgcgt 240
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<210> 7038
<211> 321
<212> DNA
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ttgaggaaca acaatagatg ttagattggt cttgctgttg aaagacagaa gagtcagtga 180
cagaagcatt tcagtttggt gtcgtttctta tatcttgctg ctgaatatca ctgctacttg 240
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ataatatcat atgcaaacct t 321

<210> 7039
<211> 117
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-015-Q1-E1-C2

<400> 7039

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<210> 7040

<211> 379

<212> DNA

<213> Triticum aestivum

<223> unsure at all n locations

<223> Clone ID: LIB104-015-Q1-E1-C9

<400> 7040

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agaaggacaa gaagcacggc gagggccaca aggacgacga cggccacggc agcagcagca 180

gcgacagcga cagcgactga gccagctccg gccgctgca gtgcanggga gatgaacgcg 240

tgggttaatt tggagcgtgt ggtagcatat gtatgtaatg cttgacatgt ctcattggatc 300

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ccattggtaa tttgtacc 379

<210> 7041

<211> 258

<212> DNA

<213> Triticum aestivum

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<400> 7041

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ccaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 180

aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa acccaaaaaa aaaaaaaaaa aaaaaaaaaa 240

aaaaggggcc cccaaaaa 258

<210> 7042
 <211> 371
 <212> DNA
 <213> *Triticum aestivum*

 <223> Clone ID: LIB104-015-Q1-E1-D2

 <400> 7042

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 tcgttacgcc cgctcataat ttttcgacgc tatggaaaat aataactact ggtatatcac 180
 tctatatcaa accggcttgt gaaataaatg gttgcgcccc ggttttttgt cgtcaaaaaa 240
 aaatgaaatg taagcaaaat caataataaa aaaataggaa aaatgtttta aaaaatatat 300
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<210> 7043
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 <223> Clone ID: LIB104-015-Q1-E1-D4

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 catccatta gcattctacc attttcctcg gagagaagta gccagaaaca gcagcgccat 180
 ggccggcatc atgcacaaga tcgaggagaa gctccacatg ggtggcggca gcgacgagca 240
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<210> 7044
 <211> 406
 <212> DNA
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 <223> Clone ID: LIB104-015-Q1-E1-E3

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 tgcgaaatgt gacggcgaca cactcgatcg tgctaacctt gtggagataa aaggacatgt 360
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<210> 7045
 <211> 333
 <212> DNA
 <213> Triticum aestivum

 <223> unsure at all n locations
 <223> Clone ID: LIB104-015-Q1-E1-E9

 <400> 7045

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 ttactttcat gttgagtcac caccctctta ttaaaagcac tagctggaga gcgctgctgt 180
 catttgcatc cattaactatt aatttatatt gggatatgact atgactggat ctcttttacc 240
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 ggtctcagaa agggctancg agataccact ttg 333

<210> 7046
 <211> 435
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: LIB104-015-Q1-E1-F1

 <400> 7046

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 ctgaagttcc attgactgat ttccatttaa gatacactgg aaacgatttg cttggtgtta 180

cggctaaagt agtggacatg cctcagcatt ttgtggaact tcatcctgat atagagaaga 240
 ttttctggga tccacagaat tggcctaaat atgtacttgt aagttataca tgggaggaac 300
 aatcagagat agatgttact gcaggattct atgtgttatt tggatctggc cttgttcttt 360
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 <211> 439
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 <213> Triticum aestivum
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 gtgaattgtt ttaatcatgt atttgaaaaa tgtatatcaa gaatatgaaa tatgtttaag 240
 tatgtataga gaaactgttg accatttatg aaaaaaaaaa tgttaaactc gtattggaaa 300
 aaggaaaaag aaaccaaaga aaaaaaaaaa ggaattgaga aaagaaaaaa tgggttaaaa 360
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 aatgaaaaaa ataaaacca 439

<210> 7048
 <211> 391
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-015-Q1-E1-F6
 <400> 7048

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 agactgaaat tgaaatgctg tcaaagctcc gccaccgcca tcttgtgtcg ctgattggtt 180
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gtgagcacct atactagacc cagaatgcac cgcttaactg gacgcaacgt ttggagatct 300
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caccgtgatg ttaaaacaac agtcatactc c 391

<210> 7049
<211> 418
<212> DNA
<213> Triticum aestivum
<223> Clone ID: LIB104-015-Q1-E1-F8
<400> 7049

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ggggcggtga ggccctccgc gcagcacagc cggccatggg aggcaggagc atgcgacacg 180
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cagctagccg ggggagtatt cttttttttg tgcgtaataa ggaggcactt ccgatggg 418

<210> 7050
<211> 286
<212> DNA
<213> Triticum aestivum
<223> Clone ID: LIB104-015-Q1-E1-G1
<400> 7050

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ccaatccgtc gtctgaaaat tagcgcggca tgcggccct gaataaattc tgctgctttc 180
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<210> 7051
<211> 307
<212> DNA

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Journal of the American Medical Association, Vol. 68, No. 10, May 19, 1927, pp. 10-11.

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<211> 232
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<223> Clone ID: LIB104-015-Q1-E1-G8

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tgagttcggt tgacgaatgt tgagtccatg gattatacgc accctttcac cctccagta 180
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<211> 441
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-015-Q1-E1-H1

<400> 7055

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<211> 450
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<213> Triticum aestivum

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ctatgccaac tcccaaacac cttcggagac acctgtagag catctttata atctcccaat 180
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<211> 421

<212> DNA

<213> Triticum aestivum

<223> unsure at all n locations

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<210> 7058

<211> 229

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-015-Q1-E1-H3

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<211> 360

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-016-Q1-E1-A10

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<211> 469

<212> DNA

<213> Triticum aestivum

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<210> 7062
 <211> 461
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 <213> Triticum aestivum
 <223> Clone ID: LIB104-016-Q1-E1-A3
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<210> 7063
<211> 462
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 agggcttcca tcagttagtc atttggcgct gggatgcccc tatatccatg gacataattg 300
 gccattgggt ggatctaatt aatgcggatg gatggattcc tcgagagcaa atattagggg 360
 ctgaagcttt aagtaaagtt cctgaggaat tcgttctgca gtatccttcc aatggaaacc 420

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463

<210> 7067

<211> 476

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-016-Q1-E1-B11

<400> 7067

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gggaagaggg ccatgtacga cgccgggctc tttgatcccc tgcacgacga cgaccaggat 120

ttctcggact tcatgcagga gatgctggtg atgatggata gcgtgaaaaa cgagaagccg 180

gacacgctcg aagacctgca gaagatgctg gatgacatag tcaacggcga cggcggtagc 240

cgcgccactg ctggtgctgg tggtagcggc ggcggtggtg gtggctgcgg tggtcgcgtt 300

ccaccggagg ccaaccgcag aactcgtgtc gcccttacc cgcagccttc gogaaggtga 360

tggacgcgcc ggtgctcgtg acgtgcacgc accgctgcgc ttgtaggaga gagatcagag 420

caagaagaga gcaaccagcg tgaaaaaaaa cattagcaaa tcagaattgt tgctcg 476

<210> 7068

<211> 440

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-016-Q1-E1-B2

<400> 7068

ggggatccgt aaaaatcttc gaagtaaagt cacttaaadc attcagatga ggataccacc 60

ctatcatacc acatcacacc cattttaata gcatgttggc acacaaggta gaccattata 120

actcagagct aatcaagcat ggcacacgca acgatgatct ctaattgtca ttgcaaacad 180

gtttattcat gacaagctga atcaagaacg atgaactcat catatttaca caaacaagaag 240

acgtcgagtt cgtaccagct tttttcatcg cagtcagtcc atcatatata atcattattg 300

cctttcactt gcacgaccga gcgatgtgga taatcataat agtgcacgtg cattggacta 360

atctggaata tgcaagcatt caattcaagg gagaagacac ggtaatatgg actcttggtt 420

aaatctacaa tcattgtatat 440

<210> 7069
 <211> 454
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: LIB104-016-Q1-E1-B3

 <400> 7069

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 aagatcccc aaagacaagc tcatttgaga ggggctaagg ccggaactgc aaagatacat 180
 gcagcgatta tcttctcaga agaaaagacg acatatctgt actattaagg tattttgggt 240
 cacttacgac tcgtgggaga attgatcccc ccaaggactt tgtgcggcaa ccgcgcccc 300
 cggggtagga ccctctgtgg gagacttctt ctcccgtttc gaagcttcgg ctccgaatc 360
 cccaaacgca atccttttcc tcttctggtc gtcttccttc atgaagacgc tcactccctc 420
 ggctggagca gccagcgttt ggggcccgcg actg 454

<210> 7070
 <211> 461
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: LIB104-016-Q1-E1-B8

 <400> 7070

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 aggacgtcgc caaggtcttc tgaatcagtt catttcacct cagccgtccg atccaggagc 180
 cgatccatct acgtacggct tcgtatatca atttcatgca actacctact ccggtcccga 240
 tccagcctca gttcacctg aggcgggccc taattttgtt tgatcatttt ttgctacca 300
 gtagtaacta gtgatgatca ctgttccatc atttatttat ttatatcat cacaagtttc 360
 ttttctttct ctaccttttt gtcgatcgtc ggctccagct cgatccaacg atccatgctg 420
 ctaattgttt gtgtacgggt gatttaagta acctgtgcac t 461

<210> 7071
 <211> 330
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-016-Q1-E1-B9

<400> 7071

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gacgcgcggg ttgtgccggg tgaggccggc tcctcaatca caagacggat tgaaaacttc   120
aattgtgctt tccaaaatga atttacccca aatttaccac aaaaattacc ttaaataatt   180
ttccacaatt tttttccgtc acaaaagtta actcaacctt tgtgcctaag ttaatgaatt   240
ggtggtgggt ataataccat tatatttaca caaaatatgt ccccatatat agtataaaac   300
cttctcttat atatctcaaa cttatcacga                                     330
  
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<210> 7072
 <211> 453
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-016-Q1-E1-C1

<400> 7072

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gagatatgcg gggatgtcct gggcgaggtc gttgaggagg cgctgtcaga gctcgccggg   180
tgccgttgat ggatgtcctt ctttatttgt ttgccctgct cgcgggtggg tccaccgggt   240
gcttttattt ccgatctggt ggagaccgtt tgctgaggac cggcgcatct tggctccttg   300
tgtgtgtgtg tgtgtatagt cctcttgac tgtcctgtat gctccagtca agtgtgctgt   360
cccactcccc tctctctgtc gcgccacatg ccgttacagt tgatacatte tattctacag   420
taataatgat cgtgaatgat accaagaaaa aga                                     453
  
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<210> 7073
 <211> 461
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-016-Q1-E1-C10

<400> 7073

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agggtcgacg aagtagcaac cttgtctatc ccaccatggc catcgcccac aaaggacttg 180
cctcactggc ggtagatctt cacgaagtag gcgatctcct tgcccttaca aactccttgg 240
ttcaactcca caatcttgtc ggaggctccc aagtgcaccc tagccaatct aggagacacc 300
actctccaag aagtaacaaa tgggtgtgtg gtaatgaact ccttgctctt gtgcttcaaa 360
tgatagtctc cccaacactc aactctctct cataggattt ggatctgggtg gaaagaagat 420
ttgagtggaa agcaacttgg ggaacgctat agattaagat t 461

<210> 7074

<211> 449

<212> DNA

<213> *Triticum aestivum*

<223> Clone ID: LIB104-016-Q1-E1-C11

<400> 7074

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gcctctgcca tccctcatcc atctgccctt cttgctcttc gacccttctt ccgtcttctg 120
catatccctc agccatgcag tacaccggac caacctactg cttcccaccc accgtgccgg 180
agaggctcta cctaccggc gtgtacgttg atcgcatact atgtgtgtgg gcgatatcaa 240
ggctgaggac cgcaaggaac ttcgccgagt tcttctctgc gtcgggtac caccatctcc 300
cgaggggatc tccaacgatg ttccgcgtcg aggaggtcat ccaaaaccgg gtggtagtgtg 360
ctctccttgc ccacttcacc aacacattcg acgccttcta cctcctcggc cgggtgtttt 420
gggtgtggctc cgagttcatc gctttcacc 449

<210> 7075

<211> 442

<212> DNA

<213> *Triticum aestivum*

<223> unsure at all n locations

<223> Clone ID: LIB104-016-Q1-E1-C4

<400> 7075

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gcaacgaggc ggtcgaggag gcgcggatca agctgctgga gctgcggcag gtgaacaagg 120
tgaaggctct cgtcggcgcc ttcgagaccg tcatggacga caacgaaagc cccgtcgccg 180
cccgcaagtc gcggctgaac cccacgcct gaactacatt caacgagcac gaagctcgat 240
tgctgctgct tcctttatcc ctgctactct ttaatcacc atcaaccaa tttgtcgtcg 300
tcgccactt atctataatt acggtaccgc ttatatattg caaggaggaa gatgatggag 360
gggttattat gatgtaataa taataatgat caaggaggat aaaanaaaaa aaaaaaaaaa 420
aaaaaaaaaa gcggccgctc ta 442

<210> 7076

<211> 391

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-016-Q1-E1-C6

<400> 7076

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gatgataatt cattcttacg tcaaaacttta aaaagaattt gagaagctcc gggaaaatta 120
gaagagtcag gtaagatcct gggaaagacc tgtaggttag ggtcaactca aaagaaacac 180
cgttgaacaa tttaaaagcg aaattgcgcc ggttgaaata aatggcttga atgaggtaac 240
atccttaaaa gaacttgatt gaaatgagaa tggaaacttg aaccttctga gatattttcg 300
aactccgaa acaattgatt accaagaatt ggatgattta gaaggtgcac cgacatgaga 360
aaccatttga accaaaaaaaa agatatgatt a 391

<210> 7077

<211> 456

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-016-Q1-E1-C7

<400> 7077

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 agaacatcgc atactcaccg gagtatacta catcccaagg cttcgcaaca acatcatctc 180
 tgtcgggaaa cctgacgaga atggatgcaa ggtggatatt gagaacggag tgatgacgat 240
 cttcgacaac ctctcaaacy tgctagcccg tgtaaactgc acacggaaca agctctatat 300
 cctcaacctt gatcaatccc aaccggagtg cgagctcgcc aagagtgatg atgattcgtg 360
 gttatggcaa tgctagattt ggacacgtca acttctacac cttgaataag atgtogaaga 420
 tggagatggg atctgggatg ccgtttattc accatg 456

<210> 7078
 <211> 476
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-016-Q1-E1-C9
 <400> 7078

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 actaatgtta agtccatgga ttatactcac tctcaccctt ccaccattgc tagcctctct 180
 aataccgcgc acctttcgcc ggtatcatac acccaccata taccttcctc aaaacagcca 240
 ccatgcctac ctattatggc atttccatag ccattccgag atatattgcc atgcaacttt 300
 ccaccgttcc gtttgttatg acacgtttca tcattgtcat attgctttgc atgatcatgt 360
 agttgacatc gtatttgtgg caaagccacc ttcataatta tttcatacat gtcactcttg 420
 attcattgca tatcccgga caccgccgga ggcattcaca tagagacata ttttgt 476

<210> 7079
 <211> 469
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-016-Q1-E1-D1
 <400> 7079

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 caagcaataa ttttgttgta taagtcaatc atatgatact tcacaattgc taatacaaaa 120

ggtaggatg gacatacagc acaagatagc ctttcttgct cgtttctcaa aagacatggt 180
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 aaaggaatcc ggtcatataa aagcatatag taaaaagaag tgtacaagta taatagcgat 300
 agcagagagg aatgtgttcc tttatttata aacaataagg cgaattatag ctatgactga 360
 acttggcgta agatctgttt tagcttgatg gctctatgca aagctcccta gtgagcaacc 420
 gcggccttta accaatcaag aagttcgcca ttgtcaactc tactttttt 469

<210> 7080
 <211> 482
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-016-Q1-E1-D12

<400> 7080

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 ctgttctcga ttaccaagta caccggcttg cttgccactg gcctcacagc tgatgcgagg 180
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 atgcctgtgg atgtattagc aaaatggata gcagacaaag cacaaatata cacgcagcat 300
 gcgtacatga gaccccttgg tggtgttgcc atgggtcttg gttacgatga agagaaaaat 360
 gctcagctct tcaagtgtga cccgcaggt cacttctttg gacacaaggc aactagtgcc 420
 ggactgaagg agcaggaagc aataaatttt ctggagaaga aaatgaagga tagccccag 480
 tt 482

<210> 7081
 <211> 460
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-016-Q1-E1-D3

<400> 7081

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tggattcctt tgccaaggca attgcaccag aattgtcaca aaagattttc attggaccgg 180
atgcactagg tatgacacct agatcggata tgaactcctt catccagact ccttcatttg 240
ttgottccga agcagctatg tattccgctt cacacgtaga tcccgccacg acgctctgct 300
tgcaactgca ccaactgaca gctccaccat ttaataaaaa tatgtatccg gtttgtgact 360
tagagtcata cggatcagtg tcaaagcttg catcgacata aacgttcaca acgagctctt 420
tgtttctctc atatacaaga aacatatact tagtcttttt 460

<210> 7082
<211> 460
<212> DNA
<213> Triticum aestivum
<223> Clone ID: LIB104-016-Q1-E1-D4

<400> 7082
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aattcgatct tatctgccca gctgttcccta ggtcacgtgt gctaccgcat tctccaaata 180
caggagagcg ggcacgcacg ttgcaagatg aaggcctggg accttctgct ctccctcaaat 240
tcaagcccaa tgagactgat tctgttgtgt tcaccggctt gcttgacaag cttctggagg 300
ctagtgaacc atttacagct gcatactctt gattgttggg gttcggggcc acattctccc 360
ctcaaattct ctgttacatt ggacttcata ctgttgtaac tcagtcacag ggatatgtca 420
tctgcatact cgataggttg attgatagtc tggtagatag 460

<210> 7083
<211> 133
<212> DNA
<213> Triticum aestivum
<223> Clone ID: LIB104-016-Q1-E1-D7

<400> 7083
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agtcgtggca ttc 133

<210> 7084
 <211> 294
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: LIB104-016-Q1-E1-E1

 <400> 7084

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 acatgcctta gcactgttcg cttactgtgc tcggagtctc atgggtcact cgcattgccta 180
 cggcagggtta atcatttcga tccttctcct gtgtggacca tgagttcaca gactctgcac 240
 atcgcttggtt aacgtgcacc atgcaccttg tagaagtaca tctggtcaca tcag 294

<210> 7085
 <211> 464
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: LIB104-016-Q1-E1-E10

 <400> 7085

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 acggcagcgg attaccgta cacggcggtg aggggcgcct gcaaccgcgc caagtccgcc 180
 catcacaccg tcaagatcct cggcggcggc gtgatccgc ccaggaacga gcccgaatg 240
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 ttctacagga gcggcgtcta ctggggccct tgccgggacaa atcttgctca cgcggttacc 360
 atcgtcggct atggcatcga cgccgctact ggggccaaagt actggctcgt caagaactcg 420
 tgggggcaga cgtgggggtga gagcggctac atcggcattgc gccg 464

<210> 7086
 <211> 466
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: LIB104-016-Q1-E1-E11

<400> 7086

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ccaaggagtg ggaggagtgc gtcaagaaga acccagcatc gctgaggaa atgtcactgc 180
cctatctcca ggacattaca acggcggttc cgagctttgt gatgcattcg gaagccgacg 240
attacagcgg aatcagcaaa taataaccgg gccttagtgc cacatgatcc gctccggcta 300
tctatgaaca tgctgctggg aggctggctg cgcgttcaat tcagaggcgc gtgagctgca 360
accggaaagc ccggagctcg aatgggggga gaacgcaagg gagccgatcc ggtagccggt 420
gagcgtgaga tgatgtccac cggacgatga cttcatgtcc atgcga 466

<210> 7087

<211> 496

<212> DNA

<213> Triticum aestivum

<223> unsure at all n locations

<223> Clone ID: LIB104-016-Q1-E1-E2

<400> 7087

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gaaagttaat gtgtcgatcc gcaaaaagcg taagcatgga ccaaagactg tggactgtgt 180
taatttgggc tatgctatga atagtgttg ctatagattt ctagtagtga aatctgaggt 240
acctgacatg aaggctcgga caattatgga gtctaaagat gctacattct ttgaggacat 300
tttccocatg agatatgtac aaagcacttc tagacaggaa tctgaggaga ctctgaacc 360
tgccatttcg atggaatatt ataacaaac acatgatgaa aatcccagg aggataatga 420
ggaattcctt ggtangggca agagacaaag gactgtaaag acctttgggtg atgatttctt 480
catatacctc gtggag 496

<210> 7088

<211> 438

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-016-Q1-E1-E3

<400> 7088

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cccgttgagc tagctgatgt tgtttcggct agagaaaatc gttacgcccg ctcataattc 120
ctttttcgat gctctggaga ataataacta ctggtatatc attctatata tcaaggcccg 180
cttgtgaaat aaatgaccc tgcgccccgg ttttgtgtcg tcgatcaaaa caaataaaaa 240
aatgaaaaaa atgaaaaaaa aacagaaaaa aaaaaaaaaa aatgtaaaaa acaataaaaa 300
aaaaatataa gaatcaaaaa aaaagaagaa ataaaaaaaa aagggggccc tccaaaagat 360
tcgaatttaa gattatcggt atgagaaatt aaaatctctt aaaaggggcg cctcaatttc 420
gttatgaggg tcatcttt 438

<210> 7089

<211> 465

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-016-Q1-E1-E5

<400> 7089

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agatctatta aacaagaagg tatcacagat agttttttta tgatagatga cgtcacgccg 180
atttacagca atcagagaag ataacatcac ggcggttcat caaactataa gaagatgttg 240
aagatgaagt ttttgctaag gattgacatg aacctgttca aatcaatctg gggcctaattg 300
ttggggatat tactactggg cgtaaaccgg cctatctggg ccggattaac ttcatacagta 360
gttaagcatg ttaaagccca tgaaggtaga tgagggtca agaccataa tcggttgaga 420
gcctgtagcc gtaaaccggt gtcaatatat aacttgatt gtaag 465

<210> 7090

<211> 209

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-016-Q1-E1-E6

<400> 7090

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 tgtgagctct cttacacacc ggggatacca cagttcaact ctattgtgct aaatgaattc 180
 catccctatg atcacaatga gaaatcctt 209

<210> 7091
 <211> 433
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-016-Q1-E1-F10
 <400> 7091

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 gtgaaagaac ttgcgaggct atgattctgt gccatagcct gagggggggt ctggagggtga 180
 aagaacatcg gagtactgtt gatgtcgtga ctgaactatc atccattgcc taatagatca 240
 tgccttggtg tgttcccaat gatttgcaat agaagaaaca atttcagatg aaagtaaaat 300
 ccggcgctct aaaagattca aacctaattg agcctggcag ggacattaaa agtcctcgag 360
 aatgacaacc aaattcaact tcatgggcct cgcttttgca cgtcataaat gggaaaaacc 420
 cgggggttaac caa 433

<210> 7092
 <211> 474
 <212> DNA
 <213> Triticum aestivum
 <223> unsure at all n locations
 <223> Clone ID: LIB104-016-Q1-E1-F11
 <400> 7092

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 aactatcaag ctcaaaagat ataagtgaag cacatagagt attctagcaa attctaata 120
 agtgggattc tctcaaaagg tgtgtacagc aaggatgact gtggtaaact aaaaagcaaa 180
 gactaatata atacacgacg ctccaagaaa aacacatatc atgtggcgaa taaaaatata 240

gctccaagta aagttaccaa tgaacaaaga cgaaagaggg gatgccttcc cagggcatcc 300
ccaagcttag gcttttggct attattgaat atcttggggt gccttgggca tccccaaagct 360
taggctcttg ccactcctta ttccattgtc catcaaactt ttacccaaaa ctagaaaact 420
tcacaacaca naactcaaca ggaaatctca taagctccgt tagtgaaaga aaac 474

<210> 7093
<211> 458
<212> DNA
<213> Triticum aestivum
<223> Clone ID: LIB104-016-Q1-E1-F12
<400> 7093

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ccagacatcg acgcggcatg caaggatccc agctgcagcg acggtgctta catcgaatgc 120
ggcagtgcgg cgtcgagatt ctgctacatc aaggccaccc ccgccaacaa gaaagccata 180
cagcaaaact tggattgctt caagagctgt tgcgcgcaga agaagagtga agactgccgt 240
aatgaatgca tcctcaacaa gagtagtccg gccgcttgaa aaatgaaaat gcatgcattc 300
cttccttctt tccttgtact tgggggtggt tccttcattt cagagtgcct cattcatgca 360
tgttttcaca tgcgcagtga ttcattctcat ttttttttgt tgaacattta ttttgtcttt 420
ttttttgttg cgaaaataaa attcattttg ttgttgac 458

<210> 7094
<211> 443
<212> DNA
<213> Triticum aestivum
<223> Clone ID: LIB104-016-Q1-E1-F2
<400> 7094

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gcgaggcgag gcgcggcgca gcggaggag aggccatgga tcccgaattcg gtctcgaagg 120
cgttcgtgca gcactactac cagacgttcg actccaaccg cgccgcgctg gtggggctgt 180
accagaacgg ctccatgctc accttcgagg gcgagaagtt cggcgggccc gccgccatcg 240
ccggcaagct cggatctctc cccttcagc attgccagca caagatcgac accgtcgact 300

gccagccctc ggggccccag ggaggcgctc tcgtcttcgt ctccggcacc atcatcacgc 360
 gccccggcga gcacccctc aagttctcac agatgttcca tttgctgcca tctggaggga 420
 gcttctacgt gcagaatgac atg 443

<210> 7095
 <211> 430
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-016-Q1-E1-F3
 <400> 7095

tcgacgggga agcggctcgtt cgatgctgag acgccgcggc ggaggggagtc ggcacgcagc 60
 aacgaggcgg tcgaggaggc gcggatcaag ctgctggagc tgcggcaggc gaacaaggctg 120
 aaggcgctcg tcggcgctt cgagaccgctc atggacgaca accaaagccc cgccaccgcc 180
 cgcaagccgc ggtcaacct ccacgcctga actacgagta cattccacca gcatgaagct 240
 cgatcgctg cgcctcctcc tttatcccggt ctactcttta atcaccatc aaccaattt 300
 gtcgtcgtcg cacacttata tataattacg gtatcgctta tattttgcaa ggaggaagat 360
 gatggagggg ttatcatgat gtaataataa taatgatcat ggaggaagat ggtgtatttc 420
 actttatata 430

<210> 7096
 <211> 439
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-016-Q1-E1-F4
 <400> 7096

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 caggctctgcc ggtggccacg acgatgagga acggcaacag cgatgactat attttctcgg 120
 tccgctcggg tggaccggtt aaagaccgga ccagaccgag aacttttcgg gcctaatatg 180
 gcagaccgga ccgtccattt tatgtagcga gctaggaccg agcgagccaa gaccgaacgg 240
 gccacgagcg ggccgaaaag cccgcttggt acgtccagcc tgacggacga cgatccaact 300
 gacttggttc ctgccccaaag tggctagatg tgcacgtaca aagctagcac cagtctccga 360

togatccctt tgtcagagac atatactagt actaactagt agagtgtccg tgcgttacaa 420
aatcacgga agaagaaag 439

<210> 7097
<211> 459
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-016-Q1-E1-F6

<400> 7097

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ctgaagcccg gtgggcatat ttcatcagg gaatcgtgct tccaccagtc tggggattcc 120
aagaggaaag tgaacccgac gcactaccgg gagccgaggt tctacaccaa ggtgtttaag 180
gaatgccact cctatgacca agaggggaat tcctttgagc tttctctggt aacttccaag 240
tgcattggag cttatgtgaa aagcaagaag aaccagaacc agatatgttg gctgtgggag 300
aaggtcaagt gcacagaaga caaaggcttt cagagattcc tggacaatgt gcagtacaaa 360
tccactggaa tcttgcgta tgagcgcgtg tttggggagg gttatgttag caccgggtgga 420
ttcgagacca caaaggagtt tgtggacaag ctggacctg 459

<210> 7098
<211> 467
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-016-Q1-E1-F8

<400> 7098

tccccggggc cggggcacca tcgtaaagaa caccaagcga aattagattc ctcccttagcc 60
atggcacacg ctgactcccc gaagcatccg ctcaactccg tcaaacatcc tgattttgat 120
gtcacctact ccagcgacac gataaccgtg gtcacgccc ctgttcaaga attcatccaa 180
ttaaccagtt aacttgccga ctaatcccta ctcatagggt caccgagccg ccgataaacc 240
gaaaaatcgt ctgattaatt gattaaatgg ccgattaact tgccgattag ccgattaatc 300
ccctactcgc tagccaaccg agcagctacc agttaacgat ttctcaaca atgggtcatcg 360
cccacatagg ctaaaccaaa ctcaccagac ttgtacgaag agaaccactc cctgttgggc 420

gtcgcgatgaa aagagcaagc taaatccaac atccatgctt cagtttt 467

<210> 7099
 <211> 275
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-016-Q1-E1-F9
 <400> 7099

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 agcgtgcagt gtacgcgaga tcgatgaccg cttgggagaa gtgtggcata catatatgtt 120
 gcaggggtttg gagcgtgtgg taccatatgt atgtaatgcg tgacatgtct cacggatctt 180
 gtgatgtata ataattagcc ggctgcactg cactgcacgg tgcttgtcat actaacgtta 240
 atgaatcatg ttggtattga tgcattctccg tttgg 275

<210> 7100
 <211> 462
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-016-Q1-E1-G1
 <400> 7100

ggggacctgg agatacaaca tttggagttg tatggtttgc aggagcaagg tgctgcagtt 60
 agggagcttg agaaccaact gaagataaac aatgtcgagt cacagctata ctccctgaag 120
 atcgaatcct tgcaatctga aaatcagagg ttacaaacac agttgtctga aagctcaaag 180
 ttaacttccc agcttgagtt gacaaaatca aaatgcaagc tgttgaaaaa gaagttgaga 240
 ctggatgcgg aacaagcaaa ggagaaaatc acttcccttc agaacatagt tgattccttt 300
 cagtgtgaagg agattattga gggagaagtt gacggcgagg ctgagaagaa attaaagagg 360
 ctagaggaat tggaaaatga ggcaagagag cttagagctg caaattcaag gctgcagcag 420
 gagaattcac accttactag gcgattggag ctcacacgcc ta 462

<210> 7101
 <211> 468
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-016-Q1-E1-G10

<400> 7101

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tgcaaattggg taattatgaa attgagaaat acgtgtgctg aacttggcaa gtcccgtagc 120
atgcatggat ggtagaagtt gtgtgacaga tttgttgcac gaggtgctct tttgattgcc 180
ttccttatga gtggaggctg ggatcgcgcg atgggttaact cctaccatcc cttcggctac 240
gagcatgcgt agtaggactt tgcctcgaag gcaggtagac ttttgcaata agtatatgag 300
ttccttatga ctaatgtgag tccatggata tacgcacact cagccttcca cattgctaac 360
cacgacatta ccacgcaact ttgcgcggta tcatgcaccc cttagttacc ttcctcaaaa 420
tagccaccat acctacctag tatggcattt ccacagccat tccgagat 468

<210> 7102

<211> 455

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-016-Q1-E1-G11

<400> 7102

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ataagatttg tagatcactg aatatgatat gtttgattcc ttgcaatagt tttgcgatat 120
agagatgata atatgtggga gggtctagta gatggttgtg tttagtaaga atattggtgt 180
taaggtttgt gattcccgaa gcatgcacgt atgggtctcct aactatgtaa ccaaattggc 240
gcacattgta ttttgattgt ttatctttac gtgaaggctg ggcgcacgcg atggttagct 300
cctaccaacc tcccccttag gagcatgcgt agtagtactt tgcttcgagg gctaataaac 360
ttttgcaata agtatatgag ttctttatga ctaatgtgag tccatggatt atacgcactc 420
ttacccttcc atcattgcta gcctcttccg taccg 455

<210> 7103

<211> 471

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-016-Q1-E1-G12

<400> 7103

gggtacatga ttcacaaggg ggcgacggtg aacttcatgg tggccgagat gagcagggac 60

gagcgggagt gggagaagcc aacggagttc gtgccggaac ggttcctgcc aggcggcgcg 120

ggcgaggctg tggatgtgac cggcaaccgg gagatcaaga tgatgccgtt cggcgtgggc 180

cggaggatct gcgccgggct gggcatcgcc atgctccacc tggagtactt cgtggccaac 240

atggtgaggg agttcgagtg gcaggaggtc accggcgagg aggtggactt cgccgagaag 300

aacgagttca ccgtcgtcat gaagaagccg ctgcgccac gcctcgtgcc ccgaagggcc 360

tgagacaaag tccatctcca tcagccagta gtcaaaccg accaatagtc cactcctatc 420

gcttcgggtcg ttcttgttta gttactctat ggttgataat ggttaattcg t 471

<210> 7104

<211> 460

<212> DNA

<213> Triticum aestivum

<223> unsure at all n locations

<223> Clone ID: LIB104-016-Q1-E1-G2

<400> 7104

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ctcagttcct gaggacgtct tcaatgagac aaccaaccat gtactcctac gtggcttctc 120

accgctacct ttaccaaate gtattcacac acttagctct caacagtagg acatgttcac 180

caatttccaa ttcatccccg atgaatcaga cctgactcaa ctctaagcgg tagcaggcac 240

gacgaaaaaa gcatgaatga gtaggcacat cagggtcaa acaactccta ctcatgctaa 300

tgtgtttcat ctatttactg tggcaatgac aggtcatgca gaggaaaagg ggttcaacta 360

ccgcagcatg taacacttga attgttggtg tcctaatagca gtanaagaga gcaagagcga 420

gagaatggga ttgtatcgga atgaacaagg ggttttgctt 460

<210> 7105

<211> 354

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-016-Q1-E1-G3

<400> 7105

gggggtccaca cacagttttg aatcgattta tcttttttgc tgagagctgc tcagatgtcc 60
aaataagttg aaatttttaag cgaacctcat gcatcaaatt gccaatcaca caaaaaatta 120
gattttttta aattttttta gtatttattt tgattttttt tgaccgggtg catgagtctg 180
ggcaccgaat tgggttttcg tttgtaaacc ccatttactg gtacaagagg ttatcagaag 240
tctaaaacta aatgtaatgt agatctctag agatgtaatt tgcattgcat ttatagcaca 300
ggaagtagta tcctggaaca tttggtgaca tcaataaaaa agaaagagaa gttc 354

<210> 7106
<211> 408
<212> DNA
<213> Triticum aestivum
<223> Clone ID: LIB104-016-Q1-E1-G6
<400> 7106

cccgggggcg cgggcaagat caagacctac ctggcgcgcc catggaagga gtactccagg 60
accatctaca tccagaacga gatcgggcgc ttcacgcacc ccaagggctg gctcgagtgg 120
aacggcgact tcgccctcga gaccctcttc tacgccgagg tggagaacac cggggcccggc 180
gccgacatga gccagcgcg ccaagtggggc ggcatcaaga ctgtcaccta cgccgacgcg 240
cagaaggagt acaccgtcga agccttcac cagggcgagt agttcatccc caagtaaggc 300
gtgcccttca tcccggggct cctcccgcag tcagaggcgg ggaggggatca ttaactcatc 360
actccatccc tcacatggtt tcattattcc gctgctccat tgctgctt 408

<210> 7107
<211> 474
<212> DNA
<213> Triticum aestivum
<223> Clone ID: LIB104-016-Q1-E1-G7
<400> 7107

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atcggttagt atcggttgag cctaagtttt tgcttcttca catgatgagt gctatccttg 120
aaatgtactt ttattttggt ttgcttggtg tttgaataat atcccaagat ctaaaattct 180
taaagtgtac agagtcttca catagttaca taattattcg actactcatt gatcttcaact 240

tatatctttt gtagtagttt gtcatttgct ctagtgttc acttatatct tcctagagca 300
 tggcggtagt tttattttgt agaaattatt gatctctcat gctccactta tattattttg 360
 agagtcctaa acagcatggt aattttcttt agttatgaaa ctagtcctaa tatgatagac 420
 atccaagatg gttataataa aaactttcat atagagtgc ttaaatacta tgat 474

<210> 7108
 <211> 440
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-016-Q1-E1-G8
 <400> 7108

ggggaagcgg tcgatcgatg ctgagacgcc gggcgggcgg gagtcggcac gcagcaacga 60
 ggcggtcgag gaggcgcgga tcaagctgct ggagctgcgg caggtgaaca aggtgaaggc 120
 gctcgtcggc gccttcgaga ccgtcatgga cgacaaccaa agccccgcca ccgccccgaa 180
 gccgcggctc aacctccacg cctgaactac gagtacattc caccagcatg aagctcgatc 240
 gcgtgcgcct cctcctttat cccggctact ctttaatcac ccatcaaccc aatttgctgt 300
 cgtcgcacac ttatctataa ttacgggtatc gcttatattt tgcaaggagg aagatgatgg 360
 acgggttatac atgatgtaat aataataatg atcatggagg aagatggtgt agttcacttt 420
 atatacgatc atcgacacga 440

<210> 7109
 <211> 303
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-016-Q1-E1-G9
 <400> 7109

tggactaggg cgtacagggc gcggagctgc gcagggtccac gtctttcggg gtaagaagca 60
 ggacgcatga tgcgacgagg caggaggaca tgtactcgtc gtggatgaac gacggtggca 120
 gcgacatgct ggcggcgcggtc tggtcggacc tggagcagat ggtcgcctag ttaattaatt 180
 cacattttcg tttcagactc cagtatataa ggagaaaaag aaatatgtaa tcgttctttg 240
 ttttttttca aacttgttgt gtcggaacac tgataaaaag aaaatttcac gcccaaaaca 300

aaa

303

<210> 7110
<211> 475
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-016-Q1-E1-H1

<400> 7110

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agataatgca agcagatgag gatgttgga aaattgcact ggctgtgcct gttttagttt 120
cgagagccct tgaattgttt ctgcaagatt tgatcgacca ctcatacaaa attactcttc 180
aaagtgggtgc aaagacactg aattccttcc acctaaagca atgtgtgaag aggtacagct 240
cttttgactt cctaactgag attgtcaaca aggtgccaga tctcgggtggc ggtgaatctt 300
gtggagatga aagaggatta cccagaagaa ggaaattttc aaatggaagc gaccagaga 360
atgaggagcc ccgatctagc aaaatgccca taagaagctt gaacaccagt cccagaggac 420
gaggcagagg tcgaggaaga aggcgagggc ggcctccaac caagagaaag gaaat 475

<210> 7111
<211> 458
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-016-Q1-E1-H12

<400> 7111

ggggaatttt gtttgcagtt attttgattt gatttgcata aagcatggga ctgggcatcc 60
tggtgacgag ccatttctga gtgaggagcg gagtcactc ctcttgagaa taaccgcct 120
aacatggaag atacgaacag ccctagttga tacatgagct atttgggcat acaaacaga 180
atgtttattd aaaggttttag agtttggcac atacaaattt acttggaaag gcaggtagat 240
accgtatata ggtaggtatg gtggactcat atggaacaac tttgggggtt atggaattcg 300
atgcacaagt agtattccag cttagtacaa gtgaacgcta gcaaaagact gggaagcgac 360
cagctagaga gcgacaacag taatgaacat gcattaaaat taatcaacac cgaatgcaag 420
catgagtacg atataatgcg ccatgaacgc aaatatcg 458

<210> 7112
 <211> 458
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LFB104-016-Q1-E1-H3

<400> 7112

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 cggttcccggt ccttcccggt tgtcatcaac catgcctagg atctcatcag aggattgcta 180
 gtcaaggacc tgggtcaacag gctgggaaca ttgagaggag ccaccgcat catccatcac 240
 cttttctttg aacgggtgaa ctggctcctg atacgatctg ctgccccaac atagacaccg 300
 tcgtgccatg tcttgactct tgcgacggtc cgccatacta cagaaagcaa atgtctggac 360
 ttcgatgatct ccgagtagca gtactttgaa cttttctaga taagtcttta gtacatttag 420
 cacaatttca gctgatagtc tacaattttt ctgttgac 458

<210> 7113
 <211> 443
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-016-Q1-E1-H4

<400> 7113

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 caccgtgtac acccccatga aataccatgg gctgaacgct cccgggatgc acctcggcgt 180
 actgggcctg agcgggctca gtcacgtcgc cctcaagttc ggtaaggcct tccggatgaa 240
 ggtgacggtg atcagctcat cgccggggaa gaagcaggag gccctcgaca ggctaagcgc 300
 cgacggcttc gttgtcagca agaacgccga cgagatgaag gctgcgatga gcaccatgga 360
 tggcatcata aacacggtgt ctgcaaakat ccccatgggc cctctcgtcg ggctactcaa 420
 gctcaaaggc aagatggtca agg 443

<210> 7114
 <211> 120
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-016-Q1-E1-H5

<400> 7114

ggggtactgt cgaagttccg cgttggttcg ctctccggcg tccgtttctt tgttccggcg 60
 cttggttttcg ctgtggtgcc tcttgctggg gttggttttcg ggacgccgtt ggggtctctgc 120

<210> 7115
 <211> 309
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-016-Q1-E1-H6

<400> 7115

aggagacccc cgccgcgctc gtacatgaga gaaggcactg gcgcagtcac ggcttagata 60
 tgaaagtttt ggacaccgag cggaactcag tcgagagctt atatatgaaa actagtgaga 120
 gagagaagac tatatttatg caattagaag agaactatat acattgtttt tccctaagct 180
 caataaggtc tgtgtccttt gtggactcgc tttcttcttt gtagagacag aatatataag 240
 accgaggatt gcattcaaat ggaaattaaa ttcaagttta gaaaagaaca ttagaactgg 300
 caatgctaa 309

<210> 7116
 <211> 446
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-016-Q1-E1-H7

<400> 7116

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 tgtggcgcggt ttggcatcgg aatggatgt gatgaacaaa accgtgagtg tactactagc 180
 cgaaagacat gcagctcggg cgcaacatga agatcatcca gcggatctca taagccagca 240
 gcggataagc aatgtggctt ccactgaggg cccatcgggt ggtgcagatg caccgacgat 300

cgaaattact gcaccggaac ctctggtggt cgaaattact gcacctgagc ctctggtgga 360
 caacattact gcaccggagc ctctcgcta ccccgaggac gatataaacg agatgataga 420
 gtgtcatctg tattatccta gcggga 446

<210> 7117
 <211> 464
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-017-Q1-E1-A10
 <400> 7117

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 cgcggcctcg gtgtacgaat gggtagggcag atgggatggc agtagggaac catggccttag 120
 agacgcgctt gtccgaaatg tggggtaagt tacggaagta cccccactga tttgaggtgg 180
 ttctttcggg tcaggggtac cacgggcatt tcgtgtgtcg ggatttcaca ggaggtggga 240
 gtttccgcac gcgttgtaat ttcggaatag caaggcgcgg gttgagatgg agggagttgt 300
 cggagcacac agagacaaag atatatctta aatatttcgg gctaacaagg cgcggtttga 360
 agacgcggga gtttcacatc acgatagaca gagacggtag cttgaatttt cggcataaca 420
 aggcgcagct tgaaatttcg gaagaacaag cttaacgtgt accc 464

<210> 7118
 <211> 381
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-017-Q1-E1-A11
 <400> 7118

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 tagagggcct atcggcagtt ggacagtgtt acaataatag cacctacatc cggaagggtt 120
 gccagtttct attatcaaag cagctaagga atggtggatg gggtagagat catctttcat 180
 ccacaaccaa ggcatacacg aacctagacg gggagaaatc acatgtagtc aacaccgcat 240
 gggcaatgtt ggcactaatg aaagctggac aggcgaacg aaatccgtct cctttgcacg 300
 aagctgcaag acttatcatg agcatgcaac ttggcaatgg tgacttccca caggaggaaa 360

tgattggaag tttcttgaaa a

381

<210> 7119
<211> 478
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-017-Q1-E1-A12

<400> 7119

tccggatttc gcgggtggcc gtacaccgct caccatcgac gtgcccgggt ggctcaaggt 60
gaaggtggag ccagaggcgc tggagttcac gtcggcgatg gagaagaaga cattcacggt 120
gaccgtgagc agcaggggag gcgacgccga cgccgggcag ctggcagagg ggagcctacg 180
ctgggtgtct gaagatcacg tgggtgaggag cccgatcatc gcggacgcca gggttgtccc 240
gacatgattc tgtcaggcgt tcgttgtact cagccagcct ggtagcata agcacaagta 300
tccatacagt tcacaacatg gagacattat cgttcttccc aactagcact actccttgag 360
gtcccgattg caaacatgca atcacacaaa tagggcactt atcaaaggag gtcaactgaga 420
taaccttgta tctttactgt atcaaatact actactcaaa atcctcaagt tgcccagt 478

<210> 7120
<211> 343
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-017-Q1-E1-A2

<400> 7120

ttaacccaac cctcccccaa accgaacca accggaagga atccccccgc ccctgaacgg 60
tatttccaat tataagggcc taattgcctt cttccctggg aaatttgatt tcttccagat 120
ccgagactga agtttcgtga ttttgaatta tactcagtga ttgtaataat cgggatactg 180
aggatgttta ccaactgctca agaaatataa aaaaggatga cacatattct tggttctgaa 240
tttttgaaca tgcctgagca ttcataagat gcaggaacce tatttggggt ggctttggct 300
tatgtcagct attgaactta ctagcttata aaccagatca tgc 343

<210> 7121
<211> 391

<212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-017-Q1-E1-A3
 <400> 7121
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 ccgacgcact accgggagcc gacgttctac accaaggtgt ttaaggaatg ccaactcctat 180
 gaccacgaag ggaattcctt tgagctttct ctggtaactt ccaagtgcac tggagcttat 240
 gtgaaaagca agaagaacca gaaccagata tgttggtgt gggagaaagt caagtgcaca 300
 gaagacaaag gctttcagag attcctggac aatgtgcagt acaaatccac tggaatcttg 360
 cgttatgagc gcgtgtttgg ggaaggttat g 391

<210> 7122
 <211> 430
 <212> DNA
 <213> Triticum aestivum
 <223> unsure at all n locations
 <223> Clone ID: LIB104-017-Q1-E1-A4
 <400> 7122
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 gctccccaaa aaccttatta cccttctccc gtacaggact caaagcgggtg tggtttcgga 120
 ggctactat cctgactcgt ggtgcatgct gcaagccggg atgangaaga caacagtagc 180
 tcagagaatg gaaccggtgg cgagaggaag gagaagttct ggtgcatctc tctgggagga 240
 ccgacctcnc ttttataggc gcaagagaag gaggcgagaa gctgcgccgg gagctgagct 300
 gaagggatcg agggagacga aacgaagagg cagcagccga aggtgctgc gtctgtattc 360
 aatatccact acagcaaaaa ctttctagct cccgagtggc ctttcgtata cccgtagtgc 420
 atggcaaaaa 430

<210> 7123
 <211> 377
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-017-Q1-E1-A5

<400> 7123

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gcggacggag caggggtggg tttcgcggct ggagcggaga ggttatggca gcctgggatt 180
tcgaatggcg aaaaggaggc gatgggaggg gtcaaccatg acttagggac acgcttgtcc 240
aaaatgtagg gtgtgttaca aaagtacccc caccaatttg aactagcggc cttttcggct 300
cagggttaga agtgggattt cgtgtgtcgg gatgtggcag ctggagggag ttttcgcgca 360
cattgtaatt tcaggat 377

<210> 7124

<211> 406

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-017-Q1-E1-B1

<400> 7124

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cgagggacat tgggtcccgt ttgtcccacc aaccgggacc aataggtcca gacgaaccgg 120
gaccaatggc ccacgtggcc cggccggccc ctggggctca cgaaccgggt ccaatgcccc 180
cattgggtccc ggttctggat tgaaccggga ctaatgggct ggatcggcct ggaccattgg 240
ccccctttct actagtgtta tagaatgctt catgtgcttc acttatatca tttgaagttt 300
ggatttcttg tttctcttca catagaaaac tgatgttcgt agaatgctct tttgcttcac 360
ttatatttgt tagagcatgg tcttttgtag aaagaattaa aatctc 406

<210> 7125

<211> 349

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-017-Q1-E1-B10

<400> 7125

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atgctaattg catcattgcc tgctactcat atatagtcac ccttgcttta gacaccttgc 120
 gtgatatcca tctatcaact gtacattaat atacagctca tagagcttcc cctacatott 180
 cgaggcgtaa cacatatgct catactgogg cacttccaca tttttatcgt catagtttgt 240
 gcgctagtgc atcccttata tatttttaaag cattgatgtc gatcgactat tgattgactg 300
 atgatgtctc acgcttcact tagattatatt tgagactcct gcacaacat 349

<210> 7126
 <211> 457
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-017-Q1-E1-B11
 <400> 7126

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 ccgcggtctg ggctcctgct tcgagctcaa gtgcaccaag ccagaggcct gctccggcaa 180
 gccaccatc gtcaccatca ccgacaagaa cgaggagccc atcgccccct accacttcga 240
 cctctccggc cagccttcg gctccatggc caagaagggc gaggagcaga agctgcgcga 300
 cgccggcgag gtggagatca tgttccggcg cgtcaagtgc aagtaccgc cgggcaccaa 360
 ggtgaacttc cacgtggaga agtcctccaa cgaaaactac ctggcgctgg tgatcaaatt 420
 cctccaaggc gacggcgacg tgggtggcgt ggacatc 457

<210> 7127
 <211> 396
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-017-Q1-E1-B3
 <400> 7127

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 gagattatgc aactcccgat taccggagga acacattgtg tgctaccaa cgtcacaacg 120
 taactgggtg attataaatg tgctctacaa gtgtctccga tggctacttt tgagttggca 180
 tagatcgaga ttaggatttt tcaactccgat tgtcggagag gtatctttgg gccctctcgg 240

taattcacat cactataagc cttgcaagca atgcaactaa agagttagtt gcgggatagt 300
gcattacaaa acgagtaaag aaacatgccg gtaacgagat tgaattggta ttgagacacc 360
gacgatcgaa tctcgggcaa gtaacatact gatgac 396

<210> 7128
<211> 431
<212> DNA
<213> Triticum aestivum

<223> unsure at all n locations
<223> Clone ID: LIB104-017-Q1-E1-B4

<400> 7128

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gccttgggccc tgaaatccag agtttgaacc gccacctcca aagtcggggcc cgtgagagcg 120
gatcctgacc cgccatgcgg tccgtgattg tcttgataaa aaccggaatt tctgtattcc 180
ctcatgatga agcaatcttc ccatagatga gtggccgggt tatcttgaga accgtgcttt 240
gggcaaggct ggttcattat cgcctcaagg ttgaacttgg gcccgcctaaa cgggggcatt 300
gacgatttcc ccttacgacg ctgattatta ttctgcgtgt tgggtattggc cacaaagtcc 360
gaatcgccgt cggttgcctt gcgcttaaca ttattacctt gacncgccgt attgtgccgc 420
tgccccctttg c 431

<210> 7129
<211> 427
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-017-Q1-E1-B7

<400> 7129

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tagccccggc gtggcgtact gcacgctacc ggttctgcag ctactctatt atgtcagaac 180
acttgagagg gatgaaagtg aaacagcagc accagcagca gcgaagatac tgctgctccc 240
tctcactcg taccctgctc ccgctgggtcc tactcctcac cggagccaac cgcaaacagg 300
gcagattgtg atcatttctg aactagcaag atacagcaca gcgcagcatt ctgtctatat 360

atccctccct gcttccctgt ctgaactttt gtttgaaaca gagttcctga acttcctaata 420
taacatg 427

<210> 7130
<211> 425
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-017-Q1-E1-C1

<400> 7130

gggtcgagg gaattcacca ttaacaggct aattgcccta ttatcaataa tcaatttttaa 60
tctaattgaa attcatatta agcacataat atatttcatt tccatattaa ggaagcagaa 120
tttcataatt gaaatacatc agagtacaac atgatatagc ttcagcactc agctacccca 180
ttacacaact gcaccagcat caagtttcac atgcaacatg tagaaccttt caaaattagc 240
atcatagaca gtatatagac agatgcatct catctggaaa agtgctgaag cggaaggcga 300
atattgagcc ttcattcatg ttgaaggctt ttgcaacttt aggccagtgc ctgtggatga 360
ttgaccgtcc gtcctgcatc ctcttcagga acacttcaat attgaaccgt ggggtgttgta 420
tgaaa 425

<210> 7131
<211> 411
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-017-Q1-E1-C11

<400> 7131

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gaacgcccac ctgtccaaag aacaggagga ggcaaaccag agacggctga aagagctcaa 120
ggaaaaattg actccagtca ttattgcaaa aacgccgtca caagatctta gaagaacaaa 180
ctcaatggag tggtagacat gagccaagct cagtagccat ccccttacag ctatgtagat 240
tttgatttgt ttgtctgtca ttcctctgtt tattggagtt aactcagttg ttgtaactta 300
gtagatatag cataaacagc ttaaattggaa tcataatgtg tagagcggaa ggctgcgttt 360
gagcaaaatg gaatctcatc agcagcttat attctgtctg atttgccctt c 411

<210> 7132
 <211> 445
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: LIB104-017-Q1-E1-C8

 <400> 7132

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 attgttattt ccttccttta atagtattgt aagggaagca ggttctccaa ataaatgcgg 120
 aagattgcag catcaagggt atcacttcac tggatttttc tacttcttgg tgggcagcta 180
 aattagtttc cctgggtccgt ttctcaacta tcacagaaga actctttact ctgtaatttt 240
 ctctttattt gtgctgaagg catagatcaa gtgctacatg gctatgctct tcggagctta 300
 gagcatcagt ggttggcctc ctttctattt gttctttttt ctaggatttg cgtgtgttaa 360
 tcggatgaat atatggaagg atacagagag gccagagagt ttgctatcaa attctcaagc 420
 agcaagaaga tagctagcct aaatg 445

<210> 7133
 <211> 276
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: LIB104-017-Q1-E1-D11

 <400> 7133

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 gatcagactg ggaggaagca ataaaaatgc caattggggg agttccagct ggcacaggaa 120
 acggcatggc caaatcgctt ctgcatgctg ccagcgagac gtgctcagtt tcagacgccg 180
 tatttgccat tatcagaggt catagtatgc tttcaggcac ataataaag tttccacggc 240
 agtttcaa at agagaaatct gatggaaaca acaact 276

<210> 7134
 <211> 394
 <212> DNA
 <213> Triticum aestivum

 <223> unsure at all n locations

<223> Clone ID: LIB104-017-Q1-E1-D3

<400> 7134

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gccanaaatc aggtcgccgc gagcttcgcc gcggagggcg ctgtcatgaa cgagctgaag 120
cagtggaacg acctctacgg cgaaggangg tcgaggaaga aggagcagct gacctacttt 180
ttgtagaacc ggaaggatgg tggatgtgtc gtgttgggca aatcgctgaa gccttggcag 240
agcatgagca tacatatgtt ggtgggaaaa ggatagagga tttcctgtga gcaaccgtga 300
gttaggatct tggagtgaat ggactccttg agatgtgtgg cagggggcat tggatcatgt 360
acgattcttt tatacgaaca agtattgtag ttat 394

<210> 7135

<211> 382

<212> DNA

<213> Triticum aestivum

<223> unsure at all n locations

<223> Clone ID: LIB104-017-Q1-E1-D4

<400> 7135

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acccgaagct gcgcatgtcg cacggggcgga tgggtttcga ggtgcggccc accatcaagt 120
gggacaaggg caacgccttc gagttcctgc tcgagtcgct gggcttcgcc gactgccccca 180
acgtgctgcc cgtctacatc ggcgacgacc gcaccgacga ggacgccttc aaggtgctgc 240
gccggagggg ccatggcgtc gggatcctcg tctccaagca cccaaggac accagcgctt 300
ccttctcgct gcangagccg gccgaggtca tggagttcct gctccgcctc gtcgagtgga 360
agcagctctc caaggcgcgc ct 382

<210> 7136

<211> 457

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-017-Q1-E1-E10

<400> 7136

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tccctccttc cccggtgagt ttcttggag taggggagat acccctttgc gaccaatggc 120
 aggatcttcc atcagcacca ctctggctct ccaattcctc ccatcttggc gcccgcatcg 180
 ctgtccatgg cgcacccctt tgggtgctct cagagtggtc gccggtgctg gcaacttgctg 240
 tcgttggata caacatgctc ttctttgaca accatgggtg acggcgacga ggtgccttgt 300
 tccgtgcggt tcgttgttca tcggagtcac ctcggttttt ttgcagtaca gagaagctac 360
 ggtgcagtcc cttaacctga gcatgatact cacctcccc tgacattgca gttcgctgta 420
 gtactccggt aatgccatgg cgctggagtt cacagtg 457

<210> 7137
 <211> 468
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-017-Q1-E1-E11
 <400> 7137

ggcaactcgt aaagataatc aagggttcttg gaacgccaac tcgggaggaa atacgttgta 60
 tgaacccgaa ttatacggag tttaggtttc cgcagataaa agctcatcct tggcacaagg 120
 tttccacaa gaaaatgcct cctgaagcca tagatcttgc ttcacgtctt cttcaatatt 180
 caccaagcct ccgttgcaact gctcttgacg catgtgcgca tcctttcttt gatgagctac 240
 gggagcctaa tgcgcgcttg ccaaacggac gcccgttccc acctctgttc aacttcaagc 300
 atgaactggc caatgcttca caagacctca tcaacaggct tgtgcctgaa catgttcgcc 360
 gacaagctgg tcttgctttc gtgcatgcgg ggagctaaat atgcgcaccg gtgccctcaa 420
 ccttgcacct tattgttttg ccatgggcag aagggtggtg gtttaaga 468

<210> 7138
 <211> 415
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-017-Q1-E1-E2
 <400> 7138

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aatatggtgg gtgtgaagaa cacaccaagg gtgacgatat tctcatatca actatgcgta 180
tcaatgggct atgaagatgc acatcaatac atatcactgt gagtgattag ggattgccat 240
gcaacggatg cactagagct ataagtgtat gaaagctcaa attgaaacta agtaggtgtg 300
catccaaact gcttgcccac gatgatctat ggcaatttga agaagcccat cattggcata 360
tacaagccat gttctataat gaaaaaaatc cactagtata tgaaagtgaa aacat 415

<210> 7139
<211> 369
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-017-Q1-E1-E6

<400> 7139

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acgccaagg ccaaggatat tgtgacgaaa gatttcgtgg ggaacaggag ctgctgtctg 180
gccgtgtcgc acgacgtgta ctctggagaa ttcaactgta cgtgcaccac ggtcacacat 240
cacatccatg caatagtgat caactaggca taggaacgtg gacctcacat gtaaaactatc 300
ctcacagata taccgctagc tttatcatcc caacaccttc tgcacacag cccattttcg 360
ctatcaggc 369

<210> 7140
<211> 416
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-017-Q1-E1-E7

<400> 7140

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tttcataatt gaaatacatc agagtacaac atgatatagc ttcagcactc agctacccca 180
ttacacaact gcaccagcat caagtttcac atgcaacatg tagaaccttt caaaattagc 240
atcatagaca gtatatagac agatgcatct catctggaaa agtgctgaag cggaaggcga 300

atattgagcc ttcattcatg ttgaaggtct ttgcaacttt aggccagtgc ctgtggatga 360
 ttgaccgtcc gtcctgcac ctcttcagga acacttcaat attgaaccgt ggggtgt 416

<210> 7141
 <211> 383
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-017-Q1-E1-E9
 <400> 7141

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 aaggtggtcg tggtagacta tgtgtattca ttcttgagga ggaacttggc agaggggtcac 120
 aaggtgttgt ccattcctaa agatgagctg ctcaaagttg ggatcacata tgagatatag 180
 agatgttttt tttttgtttt tttttttttt tgaaacggaa cacagattgc attcctccta 240
 catatcattg ctggggcaa atccccagctac aaggttctga acaaactctg ggaattgtcc 300
 caaccaagta atacatgcac cagagtttaa tgttgctccg aaaaaataaa atccatttaa 360
 aacaaaaaaaa aagcggccgc tct 383

<210> 7142
 <211> 454
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-017-Q1-E1-F10
 <400> 7142

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 atccaatgcc tcttgggaga aacaagcacc acgaagaatt gtccggcgac gcctgtggtt 180
 catggaactc tccacctcgg aattgggtggc agacagcccg tccgcatcct ctgtcagagg 240
 agcgtccggg gcatgcctcg tgttcgtctc cgcttctgga cccggccttg gagcctggct 300
 ggtggaggcg cggttggcaa cctctccgga tgtagtccgg cgagcgctct ttttcctaaa 360
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<210> 7143
 <211> 450
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: LIB104-017-Q1-E1-F11

 <400> 7143

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acttgtgcag ggtttgtgag aacatcccca ttgtgctgtg tggcaacaag gttgatgtga  180
agaacaggca ggttaaggcc aagcagggtga cattccacag gaagaagaac ctccagtact  240
atgaaatctc tgccaagagc aactacaact ttgagaagcc cttcctttac cttgctagga  300
agctggctgg tgatcccaac atccacttcg tcgaagcagt ggccttaag cctccggaag  360
tgaccttcca cttggccatg cagcaacagc acgacgctga gcttgccggt gcagtggcac  420
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<210> 7144
 <211> 397
 <212> DNA
 <213> Triticum aestivum

 <223> unsure at all n locations
 <223> Clone ID: LIB104-017-Q1-E1-F2

 <400> 7144

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aggagtcccc aaccttagca gtgccggaca ttggacggcg gcaagtagga cgcgtggctg  180
acggtgctcc tgtcctcggc cgccatcgtg tccactgttt ggcagtcgcg tccgcgtctg  240
gctacgctgc tattgcatcg cgagcgacga cttgagcgag ggcagcgtcc tcgagcttca  300
tccccgaaga caaagctctc ctgtagagcg ttcacgctcg cggtcatggc ggatgtggtg  360
ccaggtagca ggacgatgcg ctatggggga aaaanaa                               397
  
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<210> 7145

<211> 405
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: LIB104-017-Q1-E1-F5

 <400> 7145

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 gccacggcga cggcaagaag gacggcgacc acaaggagaa gaaggacaag aagcacaaga 180
 aggacaagaa gcacggcgag ggccacaacg acgacgacca ccacaacacc atcatcgcat 240
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 gaatgacgag gagtacaaga atgcggacga gcacaagaag aacga 405

<210> 7146
 <211> 343
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: LIB104-017-Q1-E1-F7

 <400> 7146

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 gatgtcgggtg aactactaa agtggacagt ggtacatcat atcatgaata cacaatggga 180
 aaacaagcac gatacctgcg taatgactaa tgttgtctac gtgtcgaca cttcatgcat 240
 accagatcgg aggatttctg gactgatgta tgctgtcatg tctgttttgc tgatgcatct 300
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 <211> 423
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: LIB104-017-Q1-E1-F8

 <400> 7147

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 gggccgaggc cgaatctaga tacgcccgtc atctagcggg agaggggagg gagcgttgga 180
 ggaaccggat gaagacgagt ttcacgtga tgatgctcat cgtgatgacc gcagctctct 240
 tctatgtgat ggtagtttag atgatcgata tcgacttgta atgtgaagtc aaactcgcta 300
 ctgcgggtct cgagacttgt aatataatgt tctatctttg ttgggtcttt tcaattcgga 360
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 ttt 423

<210> 7148
 <211> 472
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-017-Q1-E1-G10
 <400> 7148

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 tcttctaaaa atgtaatata tatttaattg ggcgtggcta tatgtcaatc acgtgaaaat 180
 aaatttaggg tcagtcactt tttcttttag ggcaagcagg cacgaaggaa cgctagccat 240
 atgtaagtag tattagcgta aagtggcagt gctagcta at tcacgtgtgc acgtctat 300
 tccctttgtg tgcgcgcgag tgtgtctgcg cgtgcacgct gccacatgtg catgtgctcg 360
 catgcgtgtt actccatcta tttctaaata tttgttttcc tagagatttc aacaagtgac 420
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<210> 7149
 <211> 439
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-017-Q1-E1-G11
 <400> 7149

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ggggaagagg gccatgtacg acgcggggct ctttgatccc ctcgacgacg acgaccagga 120
 tttctcggag ttcattgcagg agatgctggt gatgatggat agcgtgaaat actagaagcc 180
 ggacacgctc gaagacctgc ataagatgct ggatgacata gtcaacgggt acggcggttag 240
 ccgcgccact gctgggtgctg gtggttagcgg aggcgggtggt ggtggctgct gtagtcgcgt 300
 tccagcggat gccaaaccgca gaactcgtgt cgccttctac acgcagcctt cgctaagggtg 360
 atggacgtcc cgggtgctcgt gacgtgcatg caccgctgca cttgtacgat agagatcaga 420
 gcaagaagag agcaaccag 439

<210> 7150
 <211> 303
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-017-Q1-E1-G12
 <400> 7150

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 cagcaatgac cggttgattg tategctgac tggaaactgca tgcacccatg ggatacggaa 180
 gcgagtatga cactgggaac acacgctaata aataatctgc tggaggttagc tactcacatc 240
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 gga 303

<210> 7151
 <211> 426
 <212> DNA
 <213> Triticum aestivum
 <223> unsure at all n locations
 <223> Clone ID: LIB104-017-Q1-E1-G2
 <400> 7151

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 atccgtgtca acccaacagt cactttcaga gatacccata gtgtaccttt atagtcaccc 180
 agttacgttg tgacgttttg tacacccaaa gcactcctac ggcacccggg agttacacga 240

tctcatgggc taaggaaaag atacttgaca ttggaaaagc tctagcaaac gaactacacg 300
atctttgccc tatgcttagg attgggtctt gtccatcaca tcattctcct aatgatgtga 360
tcccattatc aatgacatcc aatgtccata gtcaggaaac catgactatc tgttgatcaa 420
cgagct 426

<210> 7152
<211> 448
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-017-Q1-E1-G6

<400> 7152

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aaaggcccaa gaataattat ttctgtgatt ccaaaaatat tggtttgagt tttagctctt 180
gccaatattt tcagagatta gcaggaacat tttgttgggg tcatttgaaa atattttaat 240
gttgatcatt tttaaaagat ttctgaggct tgagaattcc ctcaattcaa tttccttgaa 300
tttaagatga tgcatggatg catatgcaat gacaagcaaa ggccaaagct agggctgtga 360
cagccatgct ggagtccgga ccgcttcggg agcctgctct caacgccctg gcctctctag 420
acgccagctg cccgcggcat gcatgcat 448

<210> 7153
<211> 457
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-017-Q1-E1-H10

<400> 7153

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agatagactt tgaaatagga gtcttggaat aatgctgaat tcaaagggtt atttctttct 120
atagtataag aaagaaataa aattttatttc tatttctata gtataagaaa aacaaatagt 180
ataagaaaaa caaatcgaat caaattcatg gatttaccac gacctcgggt gtgactccat 240
agataaaaaat gggaaatttc tctcttcgag accattgaaa aagggcattg aacgagaaag 300

aaatcgtcca cagatgataa aactatcata tgccttgga agtaatatga ggtgctcgga 360
aatgggtgaa gtaattgaat aggaggatca ctatgactat agcccttggt agaattccta 420
aagaagaaaa tgatctatct gatactatgg atgactg 457

<210> 7154
<211> 61
<212> DNA
<213> Triticum aestivum
<223> Clone ID: LIB104-017-Q1-E1-H2
<400> 7154

gacgggtaga atgatctttt gatccacagg gatgcggaga agtctgggca caaccagtaa 60
g 61

<210> 7155
<211> 422
<212> DNA
<213> Triticum aestivum
<223> unsure at all n locations
<223> Clone ID: LIB104-017-Q1-E1-H3
<400> 7155

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ttctgcanag atcagactgg gaggaacaa taaaaatgca attggggtag ttccagctgg 120
cacaagaaac ggcatggcca aatcgcttct gcatgctgcc agcgagacgt gctcagtttc 180
agacgccgta tttgccatta tcagaggatca caagcaggcc ttggatgttt gcactatagc 240
gcaaggggag aagattgttt tcagcgtgct gtcaaccacc tggggtttgg tggcggatgt 300
tgacatcgag tccgagaaat acaggtggat ggggagcgcg cggttcgact tttatgctct 360
ggttcgcata atgaacttgc gccgataccg cggaagtgtc cacttcgtgc ctgccccggg 420
ct 422

<210> 7156
<211> 444
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-017-Q1-E1-H6

<400> 7156

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agaaagaatt aaactctctt gcttcactta tatctattta gagagatgat aggaattggg 120
cattcacatg gttagtcata aaatcctaca taaaacttgt agatcactga atatgatgtg 180
tttgattcct tgcaatagtt ttgcgatata aagatgggtga tattagagtc atgctagtgg 240
gtggttgtgg attgcagaaa tacttgtggt gaagtttgtg attcccgtag catgcacgta 300
tggtgaaccg ttatgtaacg aagttggagc attaggtatt tattgattgt cttccttata 360
agtggcggtc ggggacgagc gatggtatct tctaccaat ctatccccct aagagcatgt 420
gcatagtact ttgttttgat gact 444

<210> 7157

<211> 421

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-017-Q1-E1-H8

<400> 7157

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gctgcatata tatgcatgaa ctttcaactg gagataactc agatgacatg catgcagggt 180
gcatacatgg aacttgagat agggaaaatg tttcgtgttt tcttctgagt ctatgttttt 240
ttcttctgcg tttatgtact cggtttcctt acggccatgc tcgaaacttt ttcaagggga 300
gaccgggctc ccataactct tttctggacc gtccttttcc tgctgggctc tttcggccgt 360
ctgaggacac ttgctggaca taaggccttc aagataatat tctctgtgca gtgggcctgg 420
t 421

<210> 7158

<211> 399

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-017-Q1-E1-H9

<400> 7158

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ctctctgcat gctcactaaa tacgtccaca acagcatgct gacacgcgct atgacgtggt 120
acattatatt acatgagtct cgattagtat catctgtcta gaggagtatg attcacttgt 180
catacactgc catcctgccc attaaggagt agttgatgca aatatatatg acggcatatg 240
ctcgaacgaa taaggatgct gacgctaagt aagatgatta cacaacttca accaattagt 300
actaaatgca gtaacatgca ccaatcatgg ccaattgatt tggacacaca cagtgacaaa 360
ttggtcgaag ttgaacatcg acttgactaa accacatca 399

<210> 7159

<211> 340

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-018-Q1-E1-A10

<400> 7159

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gtagagtatt caacccaaat ttatagattc gacacaaggg gagccaaaga atatttgtaa 120
gtattagcag ctgagttgtc aattcaacca cacctggaga ttaattatct gcagcaaagt 180
gatcaatagt aaagtagtat gatagttttg atatcagtag cagcagcaat agtaatggta 240
atagtgatag cagtgatttt gtagcaagtg caacagtaac gatagcagta gtgacttggc 300
aagaacaata tgagagaaat tcgtaggcat tggatcgtat 340

<210> 7160

<211> 453

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-018-Q1-E1-A4

<400> 7160

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attgattgtc ttccttatga gtggcggtcg gggacgagcg atggtctttt cctaccaatc 120
tatcccccta ggagcatgcg tgtacacttc gttttgatga ttaatacatt ttcacaataa 180

gtacatgagt tatttatgac taatgttgag tccatggatt atacacactc tcaccctcca 240
ccattgctag cctcccggtg accacttaac tttcgccagt aacatacacc caccatatac 300
tttcctcaaa acggccacca tacctaccta ttatggcatt tccatagcca ttccgagata 360
tattgccatg caactttcca ccattccgtt tattatgaca tgcttcatca ttgtcatatt 420
gcttttcatg atcatgtagt tgatattgta ttc 453

<210> 7161
<211> 432
<212> DNA
<213> Triticum aestivum
<223> Clone ID: LIB104-018-Q1-E1-A9
<400> 7161

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ccgggaaagt tcttggttga tctcttctc ctcgaccgcc tcccagggtc ttgggtgtagc 120
ttttgccact ctcaccagga gatttcatgt ctgatcttga cgttcagatc ccaactgcct 180
ttgacccctt tgccgaggcg aatgctgggg acgctgggtg agctgccgga tcaaaagact 240
acgttcatgt acgcatccag cagcgtaatg gtcgcaagag cctgatcact gtccagggtc 300
tgaagaacga gttcaactac cgctagattc ttcaagaacc tcaagaagga attttggccg 360
ccaagggtac agttgtccaa gacacagatc ttggacaggt catccaactc cagggtgatc 420
agaggaagaa cg 432

<210> 7162
<211> 414
<212> DNA
<213> Triticum aestivum
<223> Clone ID: LIB104-018-Q1-E1-B1
<400> 7162

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ttttagttaa ccacaatcaa cttttctgta cacaccttc gagagaagcc ccacttgatt 120
ggaatttatt agaatactct atgtgcttca cttatatctt ttgagctaga tagttattgc 180
tctagtgtc acttatatct tttagagcac ggctgtggct taattttgta gaaattgtta 240

gtctctcatt cttcacttat attattgaga gtctcttaga acagcatggg atttgctatg 300
 gttataaaat tggctcctgaa tggtaggcat ccaagttggg tataataaaa cctatcatag 360
 gaagtgaatt ggatgctatg atcaatttga tacttgataa ttgttttgag atat 414

<210> 7163
 <211> 332
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-018-Q1-E1-B10
 <400> 7163

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 gcttggggat tcccaaggca cccaaggta atattcaagg acaaccaaga gcctaagctt 120
 tgggatgcc tggatggcat cccctcttct gtcttcgttc atcggtaaact ttacttggag 180
 ctatatTTTT attcaccaca tgatatgtgt tttgcttgga gcgtcatgtc attttatttt 240
 gttttgcttg atgtttgaat aaagtaccaa tatctgaagt tcttaaagt tagagagtct 300
 ttacatagtt gcacaattat ttgactagtc at 332

<210> 7164
 <211> 336
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-018-Q1-E1-B11
 <400> 7164

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 ctaatagatt tttgcaataa gtatgtgagt tctttatgac taatgttgag tccatggatt 180
 atacgcactc tcacccttcg accattgcta acctctctag tategtgac ctttcgccgg 240
 taccatacac ccaccatata gcttcctcaa aacaatgacc atacttacct attatggcat 300
 ttccatagcc attccgagat atattgccaa tgcaac 336

<210> 7165
 <211> 453
 <212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-018-Q1-E1-B4

<400> 7165

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aaataacaaa aagaatgtac tgtcagaagg ttcatataaa ttgttaccgc tgcaaaaaca 180
aaagaaggct ggaagtagat gccgaacagc gtggcagtag aaaggctggc ccggcaccgt 240
gagttgcagc atccacattg tgcttctctc attctacaca gaacgtgttg aactctaagt 300
tgaattgtac atagtacaat acacagatca tacatataat acatcatagt gataacctat 360
actggcaata cccaatcaat ctattttcta tcatctacgt aatacaaaa tgccaatgac 420
aatggcaatg ccogtctaata ctaaacctgg gaa 453

<210> 7166

<211> 343

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-018-Q1-E1-B9

<400> 7166

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tactttgttt tcaatggctt gtacatTTTT gcattaagta tatgagttct ttatgaccaa 120
tggtgagtc atggattata cgcactctca cccttccatc attgctagcc tcttcggtat 180
cgtgcattgc cctttctcac cttgagagtt ggtgcaaact tcgccggtgc atccaaaccc 240
tgggatacga tagactctat cacacataag cctcattata tcttctctcaa aacagccacc 300
atacctacct atcatggcat ttccatagcc atttcgagga tat 343

<210> 7167

<211> 325

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-018-Q1-E1-C11

<400> 7167

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tgcgtgtccg cggtcagcac accaagacta ccggcaggag aggaaagact gttggtgtct 180
ccaagaagcg ataagctgct tcacaaagat tcctcatagc tttgctacta ctgtgttggt 240
ccatttccag aatcttaagg gagtgttctt atttagatga ttaccttggc tgatgttttg 300
ccctagataa tgttttggtt ctgga 325

<210> 7168
<211> 98
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-018-Q1-E1-C12

<400> 7168

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tgacgctcgt cagtctcaag caccatcgta gtctgctt 98

<210> 7169
<211> 414
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-018-Q1-E1-C2

<400> 7169

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aggagtcagg ctgtgtggaa ccaactgtgct gccatgcct ttgacagtta attttgacta 180
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tagtatgttg atgtttcctg attttccttg ggttgatga caactaggtc agttactggt 360
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<210> 7170
<211> 432
<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-018-Q1-E1-C3

<400> 7170

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ctctctctct accaatcctt cttgcttccc ctctgtctct ctcaatgcc ctatatgcag   180
gttctgacat gtgcttttgt ttgatcccg cttgattttt tctttggtaa gattcaatga   240
tggttgatgc aagcccatgc ttctcacaag ttggattgaa gtttgctggt cctctatttg   300
tactattgtt tccttaccaa gtactatcag tactggggta gaaaacactt acctattaca   360
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caatttgcac gt                                                    432

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<210> 7171

<211> 242

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-018-Q1-E1-C4

<400> 7171

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actaattagt gacaaataat gtggcggaag tctaataatga actcaatcga ctttgataac   180
ttagtaccct attcatttac acctgttcat actgttcaag ccataccac taactgttca   240
ct                                                    242

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<210> 7172

<211> 239

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-018-Q1-E1-C9

<400> 7172

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 actcactact aggagccacg gttttacaac aacgtgtcta tggaatgcc a ctcctatgaa 180
 cgtgatggga cttccttcga gccttaccog gtactttcca tgtgcatttg agtttatgt 239

<210> 7173
 <211> 321
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-018-Q1-E1-D10
 <400> 7173

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 gatgtcgatg ttctttctct tcaggttgct cttgtgtagc attgccatgt agagaagtgc 240
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 atgggtgttat cggacatggt g 321

<210> 7174
 <211> 119
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-018-Q1-E1-D2
 <400> 7174

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<210> 7175
 <211> 422
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-018-Q1-E1-D3
 <400> 7175

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gcaccgcggt gtgtgcggtg gcgtggcggc gaccgcgaac tgggtgtcca acctcgtagt 120
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cggttgcttg tccgtggcag cgctcgctt cgtgctcgtc tgcgtgccgg agaccaaggg 240
actccccatc gaggacgtgg agaagatgct ggagaagcgg gaggtcaggc tcaagttctg 300
ggcaccgcgt ggccgcggca gcaagaacga cgggggtgtga gtgtcatccc taccttctcc 360
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gc 422

<210> 7176
<211> 327
<212> DNA
<213> Triticum aestivum
<223> Clone ID: LIB104-018-Q1-E1-D4
<400> 7176

cctgcattgc atcttccatg atgagaacga gtctgagcag gtcgaggagc aagatcttca 60
tcggtggtg cacgcaccat ggcccatcgg tatcgatata ggtgtgacag tccttgggcg 120
cacaatcgac atattggaga ggaagtgtga tgagcatttt gccatccatc aggagaaga 180
ctcaaagctg ctcggtgca tgattgacga ctacccgaa gagtcgccgt cactagtgtc 240
cattgagagc ctgatgcccc tcaaggaatg ggcagaggac ctctacgatt cagtcatgac 300
acagccagcc tgcggcttca tcattgc 327

<210> 7177
<211> 80
<212> DNA
<213> Triticum aestivum
<223> Clone ID: LIB104-018-Q1-E1-D7
<400> 7177

ttcgcgggtc gacgggataa tctagagtga gtcgtttag attcttctga catgtttgat 60
cattatgcga tccttgacac 80

<210> 7178
<211> 336
<212> DNA

<213> *Triticum aestivum*

<223> Clone ID: LIB104-018-Q1-E1-D9

<400> 7178

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 cgctagctgc tccgtttgca tgttgccacc acgccggctc atcttcgcga acattgattg 120
 agacgagagt cccttagtat gtgcttctcc gtctacacaa gggtgcacct gcatcgcttg 180
 tggatcatcat cgctgacaac tacatcgctt cccagcattg tcgccgccac caccgctcat 240
 ggtcttggtt aatgccaaac gggtcttctt cgcagccact agcgctgcca tgcgactaca 300
 tgtggatgac tcatgtttaa tccgccacat cgagta 336

<210> 7179

<211> 417

<212> DNA

<213> *Triticum aestivum*

<223> unsure at all n locations

<223> Clone ID: LIB104-018-Q1-E1-E1

<400> 7179

cgggtcgacg cggctgtgat gtattagtga taatattcga cgatgtactg acgcatgaga 60
 tgatttactt ttgcttattg aatgcatgct aatttgagtc ctataagata ttgtgaaatg 120
 tataatcttg gttgctcaat atccaagtgg ccgttcatgt ttgcagggtta caccttcgag 180
 tggcctatgt tttgccggag tgttgattca tttccgttcc ggcaaatttc aggcgctcga 240
 tatgtcctat tttagcaaag gtcatgtcgg atttttccat gaattttggc atgacttggtg 300
 tcagaatatg taggaaatat cgagtgcctt ggatttggtt gagtatcttg gtagttgtct 360
 tcgattgatt ttcaattaat gttttaacta tgaacatang aaatgtctga cgacgag 417

<210> 7180

<211> 70

<212> DNA

<213> *Triticum aestivum*

<223> Clone ID: LIB104-018-Q1-E1-E12

<400> 7180

agtcccgggc agacgggtaa gttatacatt cttacgaaac gcaaattggc aataagtact 60

ctgccaaaca

70

<210> 7181

<211> 430

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-018-Q1-E1-E2

<400> 7181

cggtcgacg cggtacaatt caatagttac aatcattgtc gaatcccaag atgtatacaa 60
ggtctatagt acttcacaac atgctcaaac tcacataatc ccagtcaaatt gagaatctaa 120
atgcatttca tagttattac tttgtaggat gcagcacaaa caaccaagac tctacatcag 180
ccattataga agcaacattt tgacatatcc cattgtgtga atgaaacgtg cagagagagc 240
ttttgaagat ggagtatata gggcgggaaa gattgtatgt atgtggacga gagagtagga 300
ggcaaaccac acaagacaga aaaaagcgaa aaagaaggag aaagagatag gaaaaagtaa 360
ggtctgtgac aaagatggag acatgtaata tacatgattc ggtatacgtg gaaggagaag 420
agaccacatg 430

<210> 7182

<211> 432

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-018-Q1-E1-E3

<400> 7182

taagtagact tatgcaataa gtatatgagt tctttatgac taatgtgagt ccatggatgt 60
acgcacagtc atccttcacac tttgctagcc tctgttttac cgcgcaactt tcgccggtag 120
catgcacca ttacttacct tcctcaaac agccaccata cctacctatt atggcatttc 180
catagccatt ccgagatata ttgccatgca actttccaca attccgttta ttatgacatg 240
ctccatcatt atcatattgc tctttgcatg atcatgtaat tgacatagta tttgcggcaa 300
agccaccttc atattcattg catatcccgg tacactgccg gaggaattca tatagagtca 360
tatcttgttc tagctttgag ttgtaattct taagttgtaa atcaataaaa gtgtgatgat 420
cttcataatt ag 432

<210> 7183
 <211> 353
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-018-Q1-E1-E4
 <400> 7183

ttagattcat gcaagtgggt ggttgtggat tgtagagaca cttgtgttga ggtttgcaag 60
 tcccgtagca tgcacgtatg gtaaccgttg tgtgacaaat ttgaagcatg aggtgtttct 120
 ttgattgtct tcottatgag tggcagttgg ggacgagcga tggctcttttc ctaccaatct 180
 atccccctac gggcatgcgt agtagtactt tgcttcgagg gctaataaac ttttgcaata 240
 agtaaatgag ttctttatga ctaatgtgag tccatggatt atacgcactt ttacctttcc 300
 atcattgcta gcctcgtcgg gtacgtgcat tgccctttct cacctcgaga gtt 353

<210> 7184
 <211> 408
 <212> DNA
 <213> Triticum aestivum
 <223> unsure at all n locations
 <223> Clone ID: LIB104-018-Q1-E1-E5
 <400> 7184

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 cagtccgcgg acaatgatac agaaatcggc aatccaaccc tgtctttaa cgtttgtcct 120
 tattttctct taaatacaca acattcaaca taatcataga aaatggcata attcatacat 180
 aaataacatg caaatatcca taagggcatc tccaacgtag gcctcaaac gaacaatata 240
 cttgcccgtg gactggctct gattgattca tggacattgg tacgggagcc gtccatccga 300
 ccatgtcccc tagatgtctg cttctgtttc tttttttaag ttttcgagct caaaataata 360
 gcatagcaaa tctgogatca gagagnatat tcagatggga caattttt 408

<210> 7185
 <211> 365
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-018-Q1-E1-E6

<400> 7185

gtcgacgggt gcaccaactt cgcgagctct ctctacacat ttcattcaca cattgggatg 60
tggtcaaaat gttgctttta taatggatca tgaagagtta tgggtgggtt gttgcatcct 120
acaaagtaat agctatgaga tgcattttaga ttttcatttg actggggatta tgcgagtttg 180
agcatattgt gaagtactat agacctcgta tacatatcgg aattcgacaa tgattctaag 240
tactgaattg tagaaacat tacattcaga atcagtagcc taatatattt agttctatcc 300
atcacatata cacacattct catcataagt ttgatttccc tcaatatctc gcacacacac 360
actct 365

<210> 7186

<211> 323

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-018-Q1-E1-F10

<400> 7186

acggggatag aatcgggttc cacttctctc ctcacctcgc attctctact caggctcaga 60
tccgatagcc ccccgctc caaccccgct ggcgccaatc ggaatgtagc tctccccag 120
tagactagtt taagagcaga agaatatagt taatggttcc tggatgagaa gtggaaatgc 180
tactggctgt ggaaggagga ggtttcttct catcgtcagc ttcaggatag agtcatggcc 240
ttgctctttt gctgcttgga cggaaagaag acgagaagcc tgtcaaggca tggagtcagt 300
accgagtagt cgatggggaa gct 323

<210> 7187

<211> 321

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-018-Q1-E1-F11

<400> 7187

ccgggtcgac gggtccttga tgttggtggg ttcggtaaag tttaccaggg agagatcgat 60
gggggcacaa ctaaggtggc tatcaagcgt ggcaaccctt tgtctgagca gggcatacat 120

gagttccaga ctgaaattga aatgctgtca aagctccgcc accgccatct tgtgtcgctg 180
 attggttact gcgaggacaa gaatgagatg atcctgggtct atgaccacat ggcccatgga 240
 actctgcgtg agcacctata caagaccag aatgcgcccgc ttagctggag gcagcgtttg 300
 gagatctgca ttggtgcagc c 321

<210> 7188
 <211> 89
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-018-Q1-E1-F12
 <400> 7188

gagcatggca tatactttgt ttgtatagtt aatagactta tgcaatatgt atgtgagttc 60
 tttatgactg atgttgagta catggacta 89

<210> 7189
 <211> 424
 <212> DNA
 <213> Triticum aestivum
 <223> unsure at all n locations
 <223> Clone ID: LIB104-018-Q1-E1-F2
 <400> 7189

cgggtcggcc ggggtgacggc tcaagagcgg acggacgcgg tgccctccggc gacaagtccg 60
 acgacgacga atgacctccg taagatactg ctgactgcaa catgaacacg aaccgtcggga 120
 ggagccgtag tccagttgaa gtccacgatg accactctaa agggagtgac gggttatggac 180
 ggaaagagaa catgagagat ctacagaatg atagtcatgc cagaccaggc agaggtcatg 240
 aacttgtcag gcattctgat atgcatgcct atggggcttc acgtgaatcc angatgcatg 300
 atgattatag gacgtaccat gatgtacgtg ctgatgatga aaggagccct ccttagaact 360
 tcccggccaa atcggggagtc aagggtctgac acttactatg attcctcaaa ccgtgatggc 420
 acat 424

<210> 7190
 <211> 411
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-018-Q1-E1-F3

<400> 7190

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acaaatggta gaggagggca gcgcaactggg cgcggtcaca attcggtcta ccgtcaggtt 120
gatgttgag gaggcaaaac tttaaaccgc aagatactga gacagtgatc aagaagcgac 180
agagtgagga gaatgattct tcagggtcca aagatgatag ccgtgactca aagaagaaac 240
aggcagagaa ggatgttgct aagactctgg cgagggtga gcatcagccc cgcggtacac 300
aatgaatttc ttttcatgga acaatcgagg gcttggaac ccggagacag ttcgagaact 360
tcatagcctt atgaagatgg aagggcccg cttggtcttc atgtgtgaaa c 411

<210> 7191

<211> 434

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-018-Q1-E1-F4

<400> 7191

ccggtcgacc ggggtgtcaa aataaagacg tgtgactgca cctgtcgaaa gtggaatatt 60
tctgggttgc catgcatgca tgcaattgca gtatttgagc gcactgggag gtatgcatat 120
gacttctgtg tggagtattt cagcagaaa cggtagcgct cgacctattc aatgtccata 180
aatccgatac ctgatgttac cttaacggac aattctcaga gtccagcgac attaccattc 240
tcaattcaaa ctgctcgacg ggttggcagg ccgaaagaga aacagctgat ccgccccatca 300
caattaacat ggcagtggc tgcagcagat gtaaaagtta tggtcacatc aaagcaactt 360
gcaaaattcc tatcagtggc gaagcccttc cgccttgcca ccagctgagc tcttcgatgt 420
acacagtaag gtgg 434

<210> 7192

<211> 351

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-018-Q1-E1-F5

<400> 7192

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ctcggagatg gtgtagttta caagcgacct ctagtcagtc ttctgcgaca catgcgcaac 120
atctcaccac accctacaag gaccatacga ctatactgtg ccagggtccc agtatttcca 180
gcatcatgtg atttttgttt gattttaacg gctggatccg gcatgccgcc aaggtaacatt 240
cacctccctg ggggtggggca tgcccctcct tgggttgac taggcctact catagctcaa 300
atacatcata tatgatttga caaacgacct ctggacatca tttcaggtgg c 351

<210> 7193
<211> 181
<212> DNA
<213> Triticum aestivum
<223> Clone ID: LIB104-018-Q1-E1-F8
<400> 7193

acaggctaga ttagcacatg gtataggggg tcgtgtatag tttttgttgt tctagccttt 60
gatctgattt aacaactagg cttgggagtc tagtgcgga tcactctgagt tcgctcccgt 120
gggaaatcaa ctccggagtc acgtctcgga tgcactctgac tgattttaga tgggagagaa 180
t 181

<210> 7194
<211> 320
<212> DNA
<213> Triticum aestivum
<223> Clone ID: LIB104-018-Q1-E1-F9
<400> 7194

acgggacaac caaaagccta agcttgggga tgccccggaa ggcacgcct ctttcgtctt 60
cgtctatcgg taactttact tgaagctata tttttattca ccacatgaga tgtgtttttc 120
ttggagtgtg ttgtatgatt tgagtctttg atttttagtt taccacaatc atccttgctg 180
tacacacctt ttgggagaga cacgcatgaa tcggaattta ttagaatact ctatgtgctt 240
cacttatatc ctttgagcta gacattagtg ctctagtgct tcacttatat ctttttagag 300
catggcagtg gttttatttt 320

<210> 7195
 <211> 304
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: LIB104-018-Q1-E1-G10

 <400> 7195

 gacgggaaca tcaacttttc tgaccgtttg gagctgcggc ctaaacccttc ctgtaatccc 60
 tggagcttcg tcagagcctt ttccttcccc acaggccaga gctcaattta ccttcgccag 120
 agctctaaga taaggagaat cagctcagga taaaagggtc cgcactcaat tgatccgggt 180
 caacacttcc tgtatctggt ttcggcttgg ttttgactcc ttgtaggggc tcatgacagt 240
 cctgtagggg atacaaaagc tttccgagca gtagcggcag ctgggcggga gagttgggta 300
 ttca 304

<210> 7196
 <211> 305
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: LIB104-018-Q1-E1-G12

 <400> 7196

 acgggacagg gatcgaatac ctgcagcacg agaatttcat ggaatgagca gtcagttagt 60
 caaggcaatg ccgagtctta gttttacaaa agtccaggaa gacaattgta cttcgtcaac 120
 atgtgccatt tgcttgaag actacagtgt tggtgaaaag ataagggtgc tgccttgctg 180
 tcacaagttc catgctgctt gcgtggacct gtggctcaga tcatggagga cattctgccc 240
 tgtatgcaag cgagatgcac atgctggaat gtcaaatttc cctccatcag agtctacgcc 300
 tttgc 305

<210> 7197
 <211> 78
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: LIB104-018-Q1-E1-G2

 <400> 7197

 ggagtctcga ggagcccacg agataggggg tgtacgtagg tttctgttgc tctagcgggt 60

cgtcagggcg agcagata

78

<210> 7198
<211> 244
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-018-Q1-E1-G4

<400> 7198

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catggtcaag cggctcgctg cattcttttc cagaggttgt atatgtagaa tatcagaagg 120
agcacacatg ggaagatagg tcaacaggat tgtggccgcc cttccacagt ccgatgctga 180
ttccttcttt taagactcgg gaatctgaaa taccaccgag aatgttttcc gtttctctgta 240
gttc 244

<210> 7199
<211> 432
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-018-Q1-E1-G5

<400> 7199

attccggggtc gacgggttcg cttataagcc atgaatcttc acaaattata gtcggtttct 60
aagaacactt tttttaata attcccgat tacaagtta ttatttttcc tggaaacttg 120
gtcacatatg atgacacaat gtgaaggttt tccaattttt tgaatttttt atgcccgttt 180
caaatgctgg tcaaaacggc gggcttgacc gttcctagct agtgggttgaa tcttgaaaaa 240
aattggatgt ttctcttatt aaatagatac ttatgtacct agaatgatt tttggaaaaa 300
ataaatagca aactatgagg cagctacagt tcaaatttga cccgcttcct actgaatcgg 360
ccgaaatttg tcttttcacc agagatggac caaagctttt gacaccaac cattttgtta 420
aatgtgcaat aa 432

<210> 7200
<211> 316
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-018-Q1-E1-G6

<400> 7200

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caactttttaa taaatttttac tatttgtact tttccgtatg tgatgtcatt acttaccata 120
agattagcct atgatatttc tcattatttt ctttttagttg gttgacataa gaaagtatag 180
aagcacaaac tcatactaag cttattata taactctcac tcgattacat agatagatag 240
atcacgagac taagacttga caatagatca gactaagcct ttattcaact tgtgatgatc 300
atcattatttc attatt 316

<210> 7201

<211> 236

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-018-Q1-E1-G8

<400> 7201

cgggatacgc cagtggaaact tttggcaatc gtggtggcct tgtccctgcg cggtcgccgc 60
atttgacgtc cagtacatca tcgactagtg atgtcacctg tgatctgtat gaataacttg 120
tgtcaaataa tacgggggaa atgactagtg aagtcaaacg acctgtaact tgttactcta 180
atcttttgca catgtacatg ctaatcatgc cataaacacg aactgttcgc ttcaga 236

<210> 7202

<211> 282

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-018-Q1-E1-G9

<400> 7202

gacggggaga cggtagccgg gaccctgaac tacaacaagc aacatagcgt ggacatgcac 60
ctgctgtccc ctcaggtaga gaatcctgta tatggctggg aagacagaac cactgctgtt 120
agtactacat agataggect gtaatttgtg aactaattc tttttcctcc tctccctgat 180
gccaacggca aagccttggt cattattacc aatacgaact acagactgct tgtagcacta 240
gataacactt gtgtattcga tatttcgatc ccttgagttt tg 282

agcagcgatt gaagaagcag caggaccggt cgattcaaat ccaaagtta ctgttgctag 180
aatcgtttgt tgactaagtt gacaagccct gcgtacgcgt caacttagta ggccacag 240
tcagcctccc aaccagtgcg cccagatgt cagtgggagg aatcattttt ttgcgtaata 300
aggaggcagt tgattgctg cgccaggcc agtggaggga gtaggggtggg cgggggaagc 360
ctacgcgaca tcacagcggg ccacatgagg agggagcagg cagtctcgcc ggtgctagtt 420
taggcggctg gagc 434

<210> 7445
<211> 413
<212> DNA
<213> Triticum aestivum

<223> unsure at all n locations
<223> Clone ID: LIB104-024-Q1-E1-F1

<400> 7445
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ttgcgaactt cgagtacata gatgaggcta aagcttttagc agcaaaaaag aaggcacgca 120
aaaaaacgg aactgaaacc gcatccaata aagcaaacta ttgggaagaa ttattaaaga 180
cagatgcgtt gagcaagaag tagaagaaat tgctatggga aaangaaaaa gaagccgcaa 240
gcagatggct gctgctgatg aagatgacat tactggcctg cacgagttaa gttctgaaga 300
cgaagattac tcctatgatg atgatgtgtc ggataatgac acgagtttac cagcaaattg 360
ttctgggagg aangetcagt attctaagaa aaactcacgt aatgtagatt cac 413

<210> 7446
<211> 397
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-024-Q1-E1-F10

<400> 7446
ttcgcgggtc cacgggggaca gccaaatcaa ctacgaggag ttcgtcaagg tgatgatggc 60
caagtgatcc agccgatgtt catgtccggt ggtattatta tttttaccgg ggaggaggaa 120
attgtgcatt gcatattagt agtaaggaat gcggctctcg tttccttgtc tttgccccga 180
accagaagaa gcgtactagt agacgtagtt gctgaagagc actcatggaa tcctcctccc 240

<210> 7203
 <211> 433
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: LIB104-018-Q1-E1-H1

 <400> 7203

cgggtcgacc gggcacacac agaatatatc atctcttatg actctgatga tctatatcca 60
 ggaagtaatt caggtggttg aaagctgaga tcggacttcc tggggacaaa gtctgcatg 120
 tacgacaatc agaaaccata cgacggcgcc aagtccttga agagccgatc aagtcgccgc 180
 tttgcgagca aacaaatcag cccacacggt tcaggcgata atcttgaagt tggacagggtg 240
 tcatacagggt tcaacttcct caaatcaaga gggccgagaa gaatgcactg cagtatccag 300
 tgccccgtag gtcagggcac cgcattccgat ccatccaagg agaagccacc gagcaactcc 360
 agtccttgt ctctaaaaaa caaagcgct cggtggcacg aacacctgca gtgctgggtg 420
 cttgaatttt cac 433

<210> 7204
 <211> 303
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: LIB104-018-Q1-E1-H10

 <400> 7204

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 gatattccat cggcgcaaaa tacatccacg gcaagttgca tgagtgtgcg aagcggtagc 120
 gcagcttctt cgagccttgc tctacctcg ccgaaagagc atcaaagggg attcctctga 180
 gtgcattagc atcaactcaa gtcaagtcgc ggctatatgt gattgtaggc ctggtacttc 240
 tgtcagctga atgaaattat gccaccgagt tatactgcgc gatgaagggt gtgaactggt 300
 gag 303

<210> 7205
 <211> 265
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-018-Q1-E1-H11

<400> 7205

acggggatga caacggtgag agagagatag agcacggcag tgggaaacta gctgtgtagg 60
gctcagccgt gggaagctat ctatgtaggg cacggtggca ttgagatccc attcggcttc 120
gtgctccatc tctgcctcac gcttccgcta ccattcgtag atgcagatcc cggcgcggtgt 180
gcacatgtcc gtcgtcgtcg gtctgctctg cccggcgggc gttgatagga gcgttactca 240
tccacggatg agccgtattc atccg 265

<210> 7206

<211> 217

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-018-Q1-E1-H2

<400> 7206

tggaaaatag aataccagaa aaggtcagtg gtgttttgga gggcgccctcg tctgtatgta 60
ttccatctgt gtaagttaat tcatttgggt gattgggttcg gctgtaggcg gtatatctca 120
atacagtggg ggatttgtaa tgtttctggt tttgtgttcc ttgtgagatg aaataataac 180
ttaacttggt tataacatgc tcctcaattt tcttctt 217

<210> 7207

<211> 356

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-018-Q1-E1-H3

<400> 7207

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agtaagtagg gcaacaagta tgagaattta acttggctgt gttttcaaaa gaagctggcg 180
cacctgaaag ctgattttgc atgtttttcc ccatgcatgt atgtaagctt ccaataagga 240
accaacccat gatcttattg gtgatagcat tatcatcact aggtaagggt tatgatgtgg 300
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<210> 7208
 <211> 385
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: LIB104-018-Q1-E1-H4

 <400> 7208

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 acgcagcacc taaaatagcc tcagaacgaa atttatgaag tggcatgatg aggacatgac 180
 taccttggtat atgaccaaaa atattgcata tatgcatatt tgtcagggtga tttctagtgc 240
 aaactattca ataatctatt tatgttatcc agaacaaaaa tacttcacac acttttgtgt 300
 tttgtctaata tgcagggtgta tgggacatct gtacaatcca catatgaaga taaggaacca 360
 cgaaatttta atttccgtcc aaaaa 385

<210> 7209
 <211> 384
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: LIB104-018-Q1-E1-H5

 <400> 7209

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 cagatcggtg gtttgtgatt ttccggatat cttctctgga agtgttacta tgttgtcagc 180
 tgaccgctat gttgagttcg tgatcaagtt ggatttcctc caaaccaccc ttctccgtct 240
 gtcctgcttg gtttgcctcg cgtcttagag ggtgtgcgtg tgttcatggt ggagtgtgat 300
 gtctgggcgc gtgcgtgtgt gtatgtatag gtctcggtgg tgtgggaggt gtccagtacg 360
 tgcgccagag tgccattcct tgtg 384

<210> 7210
 <211> 247
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-018-Q1-E1-H6

<400> 7210

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tatgtatttc gaagttacat tggctctggac cataagtaag gcaacgcagc atgtaagtta 120
ccgtgagaat gatctttatg tgagtggcat gttgatgata tgactatctt ggatatgacc 180
aataatattg catttctgcc tatttgtcag gtgatttcta ttgcgcacga ttcgatactc 240
tatttat 247

<210> 7211

<211> 322

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-018-Q1-E1-H7

<400> 7211

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gtatccaatg atgactcatt atctacacgc attctcaatg aaactaccct tcaactatac 120
acatttattg caacatcaac tcatataatc atctacatgt acataaaaac gatcaaaaca 180
caattcataa tgataataat gagaatgatt agatctacat taaatattgc taatgtcat 240
atatggacat tgccacgatc agaaaagata ataataccga tagcaaacat aatgataaaa 300
atacctccaa cgagactgga cc 322

<210> 7212

<211> 348

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-018-Q1-E1-H8

<400> 7212

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acgagggttt actggttcgt ctgctgtcgc cggagaataa cagcaggtgt gggtagtag 120
agggatggct aggcctgcga tgggagtacg gtggggcggt gaggcctgcg cggcagcaga 180
gccggccgtg gggaggaggg agcaggcagt cctgccggcg cttgtttgag cggttggagc 240

aggaagagca gagatagaag aagcatgacg gccgttgat ggacatccaa cagtcagtgc 300
 ttgtgcctca acctttttttt aggaaagcct caaatccatg gaaaacag 348

<210> 7213
 <211> 233
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-018-Q1-E1-H9
 <400> 7213

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 cggcgggtgac ctgggaccgt agtcaattg caagcggcac tctgtttggt gattttgaag 180
 taaatgctgg tacaacagat gccggtttat taatcattca gtaggggtat aca 233

<210> 7214
 <211> 448
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-019-Q1-E1-A4
 <400> 7214

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 ttgtagccgg ccatgaacta caacacattg gcgggctcgc tcacatgcaa tgacggcggc 120
 cgaccattg tacacaacaa cgtctaggca tctccacgac acgtgcgacc gcctgtgttt 180
 tgcttttagac ccgatggcac acctgataac aaattctttc caccacgaca agcaatcata 240
 cttggttttc tccgatcggt ttatgatgag acacaagtac atgggcttaa gcacctaga 300
 ttgattcttc tcgggtgtagt tgtgtacgta tacaaaacct aatcacatat gtatacaaaa 360
 caccctgatc ctttagatta aacatttctt ttggctacac atcacgtcca catgagacta 420
 tatttaatgg caataagggtg ttggctct 448

<210> 7215
 <211> 393
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-019-Q1-E1-A7

<400> 7215

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ggatgaaatg atgataccat gccaaactttc aaccttttca gagttcatTT tgaaatgctt 120
tccaatttaa gggcctaaaa ccccaaatta atataaaatg cacggaaaat aacaaatgaa 180
gtcacaaagt attgaaaatt gatgatgtgg ctttgaatgg tgcattttga acacacaaaa 240
agtcacgagt tcaaataagt tttaaaaaat caaatcccta tgtaacagac gagtttccgt 300
atgaaatcct gatactttga aagagattgt ccgttttgta cacgaagtgc atccaccttt 360
tgccggggagc ctctcaactt tcttgcacat gct 393

<210> 7216

<211> 394

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-019-Q1-E1-A9

<400> 7216

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tgcccgtgct ctctacggcg agctccggcg tcggtgagcg ccagggggaa gttaaggggg 120
tggagacgac gatggtggcg aagcatggca tgcttgggcc ggttgggtaa ccagcacgcg 180
ctcaacagag cactacgchg cacacagagc gcgtgttttg catgccagca caccgggacg 240
aacgtggtca ccgctgaac cgtgacatca ggccacccta agcgctaacc tttatgtctg 300
gcgtgtagtc cttagtagtt tgaagtgtta ccatggtttg gcttggatcc aggtgcagtt 360
gaaatagatt tgtactgctg gcaagtttct gggc 394

<210> 7217

<211> 417

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-019-Q1-E1-B1

<400> 7217

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atacttttgt tgaggtttgc aagtcccgtg gcatgcacgt atggtgaacc gttatgtaac 120
gaagtcggag catcaggtgt ttattgattg tcttccttat gagtggcggg cggggacgag 180
cgatggtctt ttcctaccaa tctatcccc taggagcatg cgtgtagtac tttgttttga 240
tgactaatag atttttgcaa taagtatgtg agttctttat gactaatgtt gagtccatgg 300
attatacgca ctctcacct tccatcattg ctagcctttt cggtagcgtg cattagcctt 360
tctcacctcg agagttggtg caaacttcgc cggtagcatcc aaaccctga tatgata 417

<210> 7218

<211> 366

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-019-Q1-E1-B5

<400> 7218

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cgcgccaccg attctcgcta taccaccacc atcgggggtca agccatcaga aaaggattga 120
agggcatgag attgggtcgg tcaggtgtcc agcgtgtagc acattgtgtg gtttccctata 180
tgatgatgag attggttgat tgattctgcc tgggttggtt ggttggtggtg tgttggtatac 240
tgtcctctgg ttatacaggt ctgctcaaag tgtagcgtga ctgagtcgag cggtaagaat 300
tgaattgca tgggaggaac tctgtttttg tcgagtcgga aaaggcgggtg cgggtgcgcg 360
ccttgt 366

<210> 7219

<211> 428

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-019-Q1-E1-B7

<400> 7219

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cgcgctggag ctgtcaggcc cctgcacctc ctccatcatc atccggctgg acggcaacct 120
cctcggcacc ggcgacctca ccgcctacaa gaagaactgg atcgaggtga tgcgcgtgga 180
caacttcacc atcaacggcc acggcaccat cgacggccag ggccccctcg tgtgggagaa 240

gaaccagtgc agcaagcact acgactgcaa gatcctcccc aacagcctgg tgctggacta 300
 cgtgaacaac gcgacgatcc ggggcatcac gctcaagaac gccaaagtct tccacctcaa 360
 cctcttcaag tgcaagacgg tgctggtgga gaacgtggag atcacggcgc cggggaacag 420
 cccaaca 428

<210> 7220
 <211> 363
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-019-Q1-E1-C10
 <400> 7220

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 catcgcgac caactggagg ttatcatcaa caggcggcat attaacatga tgcagcacat 120
 gctctagctc aagtattcgc accttatctc gatctccgcc ttcaaaaacc cctgcgcca 180
 ttccatcata ctccaggcac ctgtctctct gacacagtct gcaactcgatg atgattatct 240
 acgtagatta aggcacgac gtatacccaa ggatcgtatt cgacgactac atgttctctgt 300
 acatgcgcca aatctacgag gccaaagtta cactgttcac agccaagtac gtaaattgccg 360
 cat 363

<210> 7221
 <211> 293
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-019-Q1-E1-C11
 <400> 7221

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 aactggaagt tatcatcaac aggctgtata tataacatgt tgcattacat gctctagctc 120
 aagtattcca accttatctc gatctccgca ttcaaaaaac cctgcgacaa ttccatcata 180
 ttccaggcac cttgtgctcc tgagcacttc tgcaactccag atatgattta cgtatattaa 240
 ggcatcgacg tataaccaag gatcgtattc gccgaatata tgattcctgt aca 293

<210> 7222
 <211> 202
 <212> DNA
 <213> Triticum aestivum

<223> unsure at all n locations
 <223> Clone ID: LIB104-019-Q1-E1-C2

<400> 7222

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 ggcatatttt catcagggaa tcatgcttcc accagtctgg ggattccaac aggaaactga 120
 acccgacgca ctaccgggag ccgaggttct acaccaaagt gtttaaagaa tgccactccc 180
 atgaccaaca ggggaattcc tt 202

<210> 7223
 <211> 434
 <212> DNA
 <213> Triticum aestivum

<223> unsure at all n locations
 <223> Clone ID: LIB104-019-Q1-E1-D3

<400> 7223

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 ggagctaccg aaacgtgctg tgattcttgg tggcggatat attgctgttg aatttgcttc 120
 tatctggaag ggggtgggtg ctgaagtaga tctattttat aggaaagaac ttcctctaag 180
 gggttttgat gatgagatga gaacagttgt tgcaagtaac cttgaacgaa ggggaatccg 240
 attgcatcca gggacaaatt tgaccgagtt gagtaaaaca gccgatggca ttaaagttgt 300
 gacagataag ggggatgagc tcattgcaga tgttgttctt tttgctacag gtcgtgcgcc 360
 gaactccaat aggctgaacc tggaagctgt tggtgttgac gttgatcaaa tangagccat 420
 caaggttgat gaat 434

<210> 7224
 <211> 435
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-019-Q1-E1-E3

<400> 7224

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 tttggttttt gatgacttct aaatttttgc aacaagtaca tgagttcttt tgactaatgt 120
 tgagtccatg gattatacgc accctttcac ccttccatca ttgctagcct ttcttgtgcc 180
 gcacaacttt cgccggtacc atacacctac catatacctt cctcaaaaca tccatcatac 240
 ctacctatta tggcatttcc atagccattc cgagatatat tttcatgcaa ctttccacca 300
 tgtcgttcat atgacacgca ttacttttgt cacattgctc tttgcatgat catgtagttg 360
 acattgtatt tgtggcaagg ccaccttcat aattttcata catgtcgctc ttgattcatt 420
 gcatatcccg gtaca 435

<210> 7225
 <211> 317
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-019-Q1-E1-E4
 <400> 7225

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 attcttcacc actgtcgtct ctcttattgc gttttagagag cacactttcc acgttcaagc 180
 tttccattac catctacacc aataaatgta acaccaatag tacttgaaca gttaatccat 240
 gttcaatacg acttctaaat taactgtgca catctttggg gtatactgag aacctccttg 300
 tgaagcagca ttatgta 317

<210> 7226
 <211> 438
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-019-Q1-E1-E5
 <400> 7226

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 gatgagtctc ttcggcctcg gacggaatca gaagacgttc cgtcccaaga aaagtgtctc 180

atcaggcagc aagggggcac agctccgaaa gcacatagat gcaaccctcg gtagtgggaaa 240
 ccttagggaa gctgtgaggc tgctcctgg agaggatatt aatgaatggc ttgctgttaa 300
 cactgtggac ttctttaatc aagttaacct gctgtatggc acactcacag agttctgcac 360
 atccgaaagc tgccaacaa tgactgcagg cctaaagtat gagtaccgat gggctgatgg 420
 tgtacagata aagaagcc 438

<210> 7227
 <211> 438
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-019-Q1-E1-E7
 <400> 7227

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 gatgccaag gcacccaag gtaatatcca aggataacca acagactact attggggatg 120
 ccccgatgg catcacctct ttctgttca ttcattcgga agtttacttg gagctacatt 180
 tttattcacc acatgatatt tggtttgctt ggaccgtcat tttattttgt tttatgcttg 240
 ctgtttgaat aaaataccat gatcttaaat tcttatatgt tagagagtct tcacatactt 300
 acataattat tcgactactc attgagcttc acttatagtt ttctgagtag tttgtcgttt 360
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 gatgaactct catgcttc 438

<210> 7228
 <211> 315
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-019-Q1-E1-E9
 <400> 7228

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 atttttgccc tggactatta attttgcttg ctctccctt tgtctggttc caaactgtct 120
 gtggaattga cttgattagt cagctttgaa atgggtatagc tggcacgtgc acagcacaat 180
 gcaattttcc aaactaaata taatatttat gtctgatgg aatgtcaagt ctgctctatt 240

gtatgatatg aacctaggac tgtatcttat tgggaattaa gagtcacgga gccaaaattg 300
tactctgttt cgagc 315

<210> 7229
<211> 407
<212> DNA
<213> Triticum aestivum

<223> unsure at all n locations
<223> Clone ID: LIB104-019-Q1-E1-F2

<400> 7229

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ttttacttat tccgtgggtc ggaagcgggg ttcacatcat cctgcgtacc gcataacgag 120
aatgaacccc acgccctcac catcacaaca acctgatgtt atttagccct tttccttctt 180
ccagggcctg cagctcttct cattccggca gcctgaaact tgagtgaata aaatgtcttg 240
tatcgtctaa ccgttttgct acggccatct gagatggttg atacatactt acatcacggg 300
tcaatgatg agcttatgat gtcttgatca ggacatgttt tctgtgtgtc attccatttg 360
tgataaatca tttcaaatga atgttgatg caccatggan caagctc 407

<210> 7230
<211> 251
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-019-Q1-E1-F3

<400> 7230

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attgttaggt ccgcagtttg ccactttgta atgttcctcc ctacatagcg ctgtcatgcc 120
atgtgtcatg tgtgccttgc tctcagcagg gaagttgagt tgttgatgtg tgtgtagcag 180
aacgatgctt tctgcctgtg aatgtaaaac ataagattgc ctaaaaaaaaa tcaatcaaaa 240
agaaaacaaa a 251

<210> 7231
<211> 436
<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-019-Q1-E1-F6

<400> 7231

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ggcgatgtaa ttaaggaatc agcacagtta gctctgacat gggtgagagc aagatctgct  180
gaccttaatc tgtcaccac ttctgatatt aacatattgg agagccgtga tatccacata  240
cattttcctg ctggtgctgt gccgaatgat ggtccttctg caggagtgc actggttaaca  300
tcactgggtgt cattgttttag taaccgaaaa gtcagagcag aactgcaat gaccggagag  360
atgactctta agggcctact gttgccagtt ggtggagtta acgataacgt gcttgctgca  420
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<210> 7232

<211> 371

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-019-Q1-E1-F8

<400> 7232

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cacaaagtca gcgtcgagtt gcgtcactgg gacaatatca actactcaca tttgggaatc  180
atagacttgg aactaatgca gatcataaat tacgatgtgt cgcgcatagc ttgtgaatgt  240
ccatcagctt gaatatgatg ctgtggaagg cctaccaagt gtgcctgaca tcaaactgac  300
tattggtgtg attaacatct atcccggtc atgtaccagc agtttataac atttagttac  360
catatgtttt t                                         371
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<210> 7233

<211> 356

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-019-Q1-E1-G11

<400> 7233

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 acataggtgg aaactgacac agcactgaat gttgcctcag gaaattttca attgcgttga 120
 aacagacagg acagtttctca tttttcacga ccacaaaatg aagttttatg taaatgacct 180
 atcaaataca tgttgaaca tagcatcaga tcattttcac aactatgaa gacatatcta 240
 acgcatatat gacaacatgg ttgggtgtta tcgaatatga tccaacgcta gatgtaaaca 300
 gaagattgag tcagttcatt aggaatagag acacatttta actacatccg cctcac 356

<210> 7234

<211> 430

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-019-Q1-E1-G2

<400> 7234

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 ggtcggaac cctctctct agacttggtt cgttggttcc tgctgatact accatcgcca 180
 ccgaagctct gtcgtcgctc tcgagctcgt caccgtcagt atcgtgtact ctagggccag 240
 gcaagcacgt caacgtgctc gtggcgctcc tgtggtaccg cctgagccgt ttgtttgatc 300
 attctccccg cgtatccccg tatccgttga gctcttgctc cggccgccgc ttgccgtcat 360
 tgcttcggcc aactccggcc atctctgctc gtgtcgttga ttctgttcaa cgcgcgacgt 420
 cccgcccgat 430

<210> 7235

<211> 368

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-019-Q1-E1-G3

<400> 7235

ccgggtcgac ggggtaccaa aaacttgaaa acttcacaga acaaaactta acagaaaatc 60
 tcatgagctc cgtagtata agaaaacaaa ccaccacttt aaggtagctt aatgaaatca 120

ttctttatctt gtattggtgt taaacctact gtattccaac ttctctatgg ttcgtacccc 180
ccgatactac tcatagattc attaaaataa gcaaacaaca cactgaaaaac agaattctgtc 240
aaaacagaac agtctgtagc aatctgattc atacaaatac ttctgttaact ccaaaaattc 300
tgaaaaacat aggacgacct atataatttt tttaatgatt tactgcagtt ggaatcagta 360
ttttatct 368

<210> 7236
<211> 432
<212> DNA
<213> Triticum aestivum

<223> unsure at all n locations
<223> Clone ID: LIB104-019-Q1-E1-G8

<400> 7236

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cggccagacc aacctcaggg acaagatgat ggaccactgg aagatgcaca ggaggaatga 180
gaagatgctg gaggaggagc acaagctgct ggctttgagg atgcaccagc aggacgacct 240
gagcagcggc atgagggaga tggagctcgg gtaccatcag ggtanggatt tcaacttcca 300
gatgccgttc accttccggc tgcagcccag ccacccaac ttgcangaag acaagtaggc 360
catcgaatcc tgccgtggcc tgtgtgaact gaagctctc tacctgcagg ccacaactgc 420
tagcttcaat tt 432

<210> 7237
<211> 433
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-019-Q1-E1-H12

<400> 7237

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gctcgccac cctgctgtag ggccttcat cagcacagc ggctggaact ccacggtgga 120
agccgtgtcg gacggcgtgc cgatgatatg cctctcgttg cactggagacc agttcagcaa 180
cgccaggtag gtgtgcgatg tctggaaggc cggagtggag atcgaggcgt cgtctgctgc 240

tgggcagaac ctggagagag ggaagatcaa ggctgccatc gacaagattg tgcacgacaa 300
 agggattaga gagaggatgg atgccttcaa attaactgca gatgaagcag ttaactccca 360
 aactgaggtg aaagctttgg ttgatctcat aaactcgttt taattaattc agaaccttcc 420
 acttcagata cct 433

<210> 7238
 <211> 434
 <212> DNA
 <213> Triticum aestivum
 <223> unsure at all n locations
 <223> Clone ID: LIB104-019-Q1-E1-H4
 <400> 7238

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 gacgtccggg tagggaagtc aaaacccaca ggcaacattg gaacgggtatt gcattccttc 120
 atcatcaagt gccctggctc caaacagcaa acgagagaga aagtgatcgc tgcaatgtct 180
 cgcgccatga gctcagtgtg nagtcgggtg angggagtcg gtgcagtaga ggttggttac 240
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 ttgtaggctg agacagcaag ctgagatttc tgacttagca atgcaagaaa agcacaagct 360
 aaaccgccat tgttgtaacg gtaggttctt gtgctccttg tagttttgat gtttttttgg 420
 gaagaaatac atgc 434

<210> 7239
 <211> 401
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-019-Q1-E1-H6
 <400> 7239

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 ttttttttgg gagagcagtt tccgtgattc tgcttggtgc aaaaaataga aatgaatgta 120
 tttaaaacta aaatacgtct agatacatct atttctccga tggctaacac tccacttcat 180
 gatacatgga ctogtgtttt taagaaaata aaaaagagta gcaaataatc cggcgtgacg 240

agacggaggg cgagcgtatg gccgacaact tggctgctct tttgaggaag ggacgatggt 300
gtccagacag cggttgcttg ggagcttgca aggcctgtgt ttggctccta cgccgagttc 360
agtgccctgc aggttcaagg taactctgac atccttgac g 401

<210> 7240
<211> 360
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-019-Q1-E1-H8

<400> 7240

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catcagggaa tcgtgcttcc accagtctgg ggattccaag aggaaagtga acccgacgca 120
ctaccgggag ccgaggttct acaccaaggt gtttaaggaa tgccactcct atgaccaaga 180
ggggaattcc tttgagcttt ctctggtaac ttccaagtgc attggagctt atgtgaaaag 240
caagaagaac cagaaccaga tatgttggct gtgggagaag gtcaagtgca cagaagacaa 300
aggctttcag agattcctgg acaatgtgca gtacaaatcc actggaatct tgcgttatga 360

<210> 7241
<211> 462
<212> DNA
<213> Triticum aestivum

<223> unsure at all n locations
<223> Clone ID: LIB104-020-Q1-E1-A4

<400> 7241

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aattacaagt gcgtactatc gagggggcgt cggtgcgctt gtcgtgtacg atgtgacacg 120
ccatgtgacc tttgagaacg tggagaggtg gttgaaggag ctccgggatc acacagatgc 180
aaacattgtc atcatgcttg tcggcaacaa agctgatctc cgccatctta gggctgtatc 240
agtggaggat gccaaggcct tcgctgagag ggaaagcacc ttcttttatgg aaacatctgc 300
gctggaggcc atgaatgttg agaacgcctt cactgagggt ctgactcaga tctaccgtgt 360
ggtcagcaag aaggccctcg acataggcga tgaccctgct gctccanega gagggcanna 420
catcaatgtt ggtggcaagg atgatgtctc tgctgtgaaa aa 462

<210> 7242
 <211> 286
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: LIB104-020-Q1-E1-A5

 <400> 7242

tcggtatgat gaatgctaca ccaggatcag gacggtgaat gttagcgcta ttcgtgataa 60
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 ctgcttcacg tgtgctcacc aacgaagttc aatgctagca tgcgtgtga agtggctcgc 180
 acagcgacaa tccgatggtg ctgcataaga ctgggcaaga cctatcatat gctgaagtct 240
 ttcagtactg tcacagattg ggtcagggtga atcagccggg cgctct 286

<210> 7243
 <211> 370
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: LIB104-020-Q1-E1-A7

 <400> 7243

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 caccgggatg gtagcaggcc agcaagcagc acttggtactg aacttgtttt tgcattgtcta 180
 gatggggaag tgattcttct ctgtgattct tgtatggcca ttgtgtataa tagaaacgtt 240
 tgcattgcaac cacgggtctg gctgcatggt cttaaagagct aaacatgaac aaagaacaca 300
 tctggagtat cctgtagcac acatggggaa aacacgtctc tatagtgaat ttgcgggtata 360
 catgtctgtc 370

<210> 7244
 <211> 319
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: LIB104-020-Q1-E1-B1

 <400> 7244

gatttcagaa accagtcggt aagtcgatga gtcaaccaag agtttgtccg tgctaaataa 420
gaaaacacaa gtcctgttgt taccgcgaga tagtggggaat 460

<210> 7247
<211> 445
<212> DNA
<213> Triticum aestivum

<223> unsure at all n locations
<223> Clone ID: LIB104-020-Q1-E1-C1

<400> 7247

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caccgggcac caccgcaata aaccgggtcca ggtataaagg cgtgaatgcc agggacgaac 120
cttcggatgg ctgcaacgcc acgcccagct ccacttggtc atcgcgacc attccagca 180
cctgttcatt gatcaggtca tgcaccgtca cattcacctg cgggtaacgt gcgcggaata 240
tcttaagaat cgggtggcagc aggttgcccg caaacgaagg catcgccgcc acggtgacgc 300
ggccacgctg caggggtgaaa cgctgacgca gttcgtcttc ggcattgtcn cagtcggcaa 360
tcaaccggcg cgccaacggc agcagcgatt caccttcagg cgtcagtgcg acgttgcggg 420
tattgcggct gaacaggcgg ccgct 445

<210> 7248
<211> 363
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-020-Q1-E1-C2

<400> 7248

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aattttatat ggtctgatgc tcagacacca atggaattgt tcaaatttta ccagtggtg 120
atcattgtag gctccatttg ttatcaaaat acgctaatta gtgcgtgctc atacacaaaa 180
ggaacagttc aagtcttgtc gctgctcag tcaatcgtga gttacagtaa aagctataaa 240
tgtctagctt tgagctcagt ttagttttga aatgcataat tagcttttac attacatgtt 300
tgaaagggtt ctcttctaatt ttatacttaa ataaaattgg agaaattctc atctcgctaa 360

aaa

363

<210> 7249
<211> 467
<212> DNA
<213> Triticum aestivum

<223> unsure at all n locations
<223> Clone ID: LIB104-020-Q1-E1-C3

<400> 7249

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tcgtgaatga ggagcggagt ccactccctt gggaataacc cacctagcat ggaagataca 120
aatagaccta gttgaaacat gagctgctcg agtatataaaa acagcatttc atttgaaggt 180
ttggagtttg gcacatacaa atttaattgg gacggaaggt aaataccgca tataggaagg 240
tatggtaggac tcatatggaa caactttgag gtttatggag tttggatgca caagcagtat 300
tcctgcttag tataggtgaa ggctagcaaa agactgggaa gcgaccaact gagagagcga 360
caatgctacg tcttgagctt gtgttggttt tccccgaaga ggagaggatg atgtagcaca 420
gtagcgtagg tatttcgctc agtttttgag aaccaaggta tcaatcc 467

<210> 7250
<211> 460
<212> DNA
<213> Triticum aestivum

<223> unsure at all n locations
<223> Clone ID: LIB104-020-Q1-E1-C4

<400> 7250

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cgaacctggc ggagaagctg atcacgaagc ggctgtacgc ggaagggggc gagtggaga 120
actgggtgtg gcactcggag ggggacctga tgctcaacga ctccgtcttc gccgacagcg 180
ggggcccaa ccagaggaag ttcgagaagg atgacctcat cccgccaag ccgggatcgt 240
acgtcaccag gctcacgcac ttcgccggct gcttgccgtg caagcccgcc aagccctgct 300
aaaccttggg gggcccgccg gccggccgga cccgatccct tccgaatctt caattctata 360
gctttgttca agtcttttac tcaaagattc gtgtatgtat tactatgaca tttgagtagt 420

ctacgggggtt cagatcatag ggccctgtag gttgttcctg 460

<210> 7251
<211> 459
<212> DNA
<213> Triticum aestivum

<223> unsure at all n locations
<223> Clone ID: LIB104-020-Q1-E1-C7

<400> 7251

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atctgttcgt tcagcaacag tggacacttt ggctgtctga attgcgacca gaaaagcttc 120
tctgttgcatt gcccttcttt cgcttggaag aaccgcgcct catcagagac actcttcggc 180
aagtccaaga atgcatctgg agaactccac ttttgattaa gcggggcata ctccggatca 240
acgaatttag tctgtaataa gaaaggctta ccggccgcta tctcccagc ttgcgggata 300
ttctctcgag ccgccctaga caccgatcat gcttctctcg cctcttgtaa ggccttgctg 360
agatcgacct ttttggcttt gttatccttc tcgaggaatt cgcaccggac agtggtcttc 420
ttttgctcgc gcgccatggt agacattctc tctctgcac 459

<210> 7252
<211> 452
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-020-Q1-E1-C8

<400> 7252

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ttatggcgat ggcatccaca catggccatc accaccttgc tgcgggtgac gcaacttacc 120
gaacaacaat tcttttctcc atctctcttg acgcagctcg acgacgatgg agacacgcac 180
cagcagctag cagcatcgcg ccgccacctc cgtccacctt gtgcgggcca cctccacctc 240
acatggattt cgcggtgccc ccgcgctcgc cttggatcga caaggctctg ataccaattg 300
ttggcgccgc ctctctcgtg tgcagcgccg ctcttcttc tacctcaagc tgccttacac 360
aactctcttg aggtttctct caagaacaca agaatacaca cacacacaag aaactctaca 420
cacacgcacc aaggaagaag cccaactacc tt 452

<210> 7253
 <211> 489
 <212> DNA
 <213> Triticum aestivum

 <223> unsure at all n locations
 <223> Clone ID: LIB104-020-Q1-E1-D1

 <400> 7253

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caccaccac ccattctcgtc gccaatgtgg agaacctaac caaagtcctc gcaagcggat 120
ccgacgacac cgatgacatg gacgaggagg tcagtgagtc ctcgccccgc ctgcaaacia 180
ccaccacacc aacgaggaag tggatgacaa cctccacctc cgacatctac gtggttagata 240
ctccccacga caacagtggc agaggcgata atgataacia tggccggggg aggcaacggt 300
agcaataacg gtgggaatga taacatggca ccaatgccaa caacccaac aacaaccttg 360
gtcccgatca caaggacacc ttaaacaagt cacttggcag tccaaccac gatgcattaa 420
agctaaggct gctcgacacc gccacaaga taaccgatga aaagcaacga cttcgtgaca 480
aagagaaat 489
  
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<210> 7254
 <211> 311
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: LIB104-020-Q1-E1-D3

 <400> 7254

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tgaagagtgg aaggagctgt taaagctttt tctttcggca gttggcttat tatgctctgg 120
ttccctgcaa aaaaaaagaa aaggcttatt atgctctgga gctgtcttgc atttttcctt 180
cttgcaatgc tgcgttagcg gtatgtaatc ctgtaaccat attttgagta ctctctgggt 240
tttcaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaacag 300
acgaacaaaa a 311
  
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<210> 7255

<211> 385
 <212> DNA
 <213> Triticum aestivum

 <223> unsure at all n locations
 <223> Clone ID: LIB104-020-Q1-E1-D4

 <400> 7255

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 cattgagctt tcctgaaata tttatcttga aatagcatta gctcaataag ctatatgttg 120
 ttaggaatta ccaaaccac ctagggatag ttgcactttc aatactctat gtgcttcact 180
 tatactttt gagcttgata gtttttgctc tagtgcttca cttatatctt ttagagcgcg 240
 gcggtggctt aattttgaag aaatttctag tctctcatgc ttcacttata ttattttgag 300
 agtcttttag aacagcatgg tatttgctat gggtataaaa ttggtcctag aatggtaggc 360
 atccaaattg ggtaaaataa aaact 385

<210> 7256
 <211> 478
 <212> DNA
 <213> Triticum aestivum

 <223> unsure at all n locations
 <223> Clone ID: LIB104-020-Q1-E1-D8

 <400> 7256

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 aatattgtga caactatttg atccaccgga agtttcatga ggttttactc tgtgtgatta 120
 agatggcagc agattacctc aaacctaagg acccaaactt tagtgtgcac ccaaagattc 180
 gaaaggatag aagggttat ccccatctta aggattgcag tgggtgacta gatggtactc 240
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 caactctgaa tgttctggca atatgtgatt ttgacatgaa tttcatgtac acctcagttg 360
 gtcaacctgg ttttatgcat gatacatgtg tcttgatca tgcaattgaa gctgatanag 420
 atacctccc tcacctccg aagggttagt agttcctata ataattttgt tactcaaa 478

<210> 7257
 <211> 491
 <212> DNA

<213> Triticum aestivum

<223> unsure at all n locations

<223> Clone ID: LIB104-020-Q1-E1-E1

<400> 7257

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gcacgagaat ttcattggaat gagcagtcag ttagtcaagg caatgccgag tcttattttt 120
acaaaagtcc aggaagacaa ttgtacttcg ccaacatgtg ccatttgctt ggaagactac 180
agtgttggtg aaaagataag ggtgctgcct tgtcgtcaca agttccatgc tgcttgctgtg 240
gacctgtggc tcacatcatg gaggacattc tgccctgtat gcaagcgaga tgcaaagtct 300
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ccagctgaat ccacaacttt gtcttctttt cgttcaatgg tagcagcatc tcctccaagg 420
acaataagcc ggcattcttc atggcagtc atgtcccgca ctaactcaa ttccagtatc 480
ctcacatccc g 491

<210> 7258

<211> 400

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-020-Q1-E1-E10

<400> 7258

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agaaacgtga cgacgacgac gatgatgacg atgacagaag gccacgttac aagaagcgct 180
acgacgacga cgacgatgat gatacgaagc caggttaca gaagcacgat gatgatgatg 240
acgacgacga tgataggaag cagcgtcgcg ggaacaatcg ccgccgccac gatgacgatg 300
actgattatg acatgacttt acgctgacgc taataagcat aattgcggcg gctttgcac 360
gagtaattac gacatttcac atttttttca aagcattttt 400

<210> 7259

<211> 472

<212> DNA

<213> Triticum aestivum

<223> unsure at all n locations
<223> Clone ID: LIB104-020-Q1-E1-E7

<400> 7259

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cagctttgag ccccttcca acatccggct ggcaatggtg acccagcagc agcaatactt 180
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tttccagcag cagccccagt attgtgtgca tccggccgga acttacaatc cgtttggtga 360
ccctttcact gaccttgtaa ctctgggtgc tccttcaaaa caaggcgatt taagtttgct 420
ctgaattgcc cggcctgtt tctgatctca gtcaatatag atgggtactc cc 472

<210> 7260
<211> 442
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-020-Q1-E1-E9

<400> 7260

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caagaaacgt gacgacgacg acgatgatga cgatgacaga aagccacgtt acaagaagcg 180
ctacgacgac gacgacgatg atgataggaa gccacgttac aagaagcacg atgatgatga 240
tgacgacgac gatgatagga agcagcgtcg cggaacaac cgccgccgcc acgatgacga 300
tgactgatta tgacatgagt ttaagctgac gctaataagc atagttgcgg cggctttgca 360
tcgatgaatt acgacatttc actttttttc caagcatttt tcatttcgct gttcactggg 420
caccatgcct ccaatcgtat gc 442

<210> 7261
<211> 433
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-020-Q1-E1-F5

<400> 7261

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actgagccag ctccggccgc gctccggcag cagcgtgcag tgtaggcgag atcgatgaac 180
gcttgggaga agtgtggcat acatatatgt tgcagggttt ggagcgtgtg gtagcatatg 240
tatgtaatgc gtgacatgtc tcatggatct tgtgatgtat aataattagc cggctgcact 300
gcactgcacg gtgcttgtaa taataacggt aatgaatcat gttggtattg atgcatctcc 360
gttggttaatt tggatatccc atgtttttta aaaaaggcca caacagataa ccaataaagg 420
ggccgcccta aag 433

<210> 7262

<211> 217

<212> DNA

<213> Triticum aestivum

<223> unsure at all n locations

<223> Clone ID: LIB104-020-Q1-E1-G1

<400> 7262

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attttgttct tactttctgt atanatgtgg ntttgtgttt taattaatgt ttgtgccaag 120
taaaacctat aggataagct atgatgatag ttaatttgat tctgctgaaa aacagaaact 180
ctgcactcac gagaaaaaat taaattaatc acaggaa 217

<210> 7263

<211> 433

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-020-Q1-E1-G2

<400> 7263

ctgctgtacg gtccgagaat tccgagtcga cgggttgacg aggagggacg gcgggacgag 60
ctggttcgcc gacaatctca acaggggcca tcttgattac ttctacctgc tctcgtctgc 120
tctcagcgcg ctggagcttc ttgctttcct ctacttctcg gcgaattaca ttacaagag 180

aaagcttgtc aatgttcact gaccgagact aatacatccg tctatgtact atggatttgt 240
ggccaggtat acagtacaat tgcagtttagc atcagtaaag ttatacgagt acgctgacga 300
ccgaccctca gattttttttt ctttttttga aaaaaaaaaa aaaaaagaag aaagaaaaaa 360
aaaaaaaaaa gaagaagaaa aaaaaaagga aaaaaaggaa aaggaaaaaa aaaaaaaaag 420
gggccgccct aaa 433

<210> 7264
<211> 320
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-020-Q1-E1-G3

<400> 7264

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gccaggccag tactaccagg acactagcag cgggggagag atcggggagg cctacatata 180
caagctcacc ggggttcgcg tgttctgect cctgaacgcc atcgccctct tcatctcgct 240
cgcggtggtg gtggtgcaga ttacgtggt cccctgggga gaccggcgcg cagaagcaga 300
tcatcaagat tgtgaacaag 320

<210> 7265
<211> 448
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-020-Q1-E1-G9

<400> 7265

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agagtgcata taatccatgg actcaacatt agtcataaag aactcacaca cttattgcaa 120
aaatttatta gttatcgaaa caaagtacta cgcgcatgct cctaggggga tatattggta 180
ggaaaacacc atcgctcgtc cccgaccacc actcataagg aagacaatca ataaataaat 240
catgctctga cttcatcaca taacggttca ccatacatgc atgctacggg aatcacaaac 300
tccaacacaa gtatttctca aattcaaaac tactcaacta gcatgactaa tataacaaca 360

tcctcaaaac ccaaaacaat catcaagtat caaacttctc ataataattca atgcactttt 420
tatgatagtt tttatttata ccatcttg 448

<210> 7266
<211> 448
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-020-Q1-E1-H11

<400> 7266

ggtccaggac tccgggtcga cgggagcgcg gggcagaagg agcgggtgcg gctgctctac 60
cgccgcgcgc tcaaggacac cctcaactgg gccgtccacc gccacctctt ctaccaggac 120
gcgctccgagc tcagggacaa gttcgaaggcc aacagaaatg tggagaacct ggacgtgatc 180
gatagggtca tcgaggacgc ggagycgcag cagaggaact tccagcaccg ggatccttac 240
attgttccat gggtccttg tggcactaaa ttcacaagga accctcctcc acctgaaggg 300
attgagatta tctacaacta tggcaaagaa gaccaatgaa caagaatcat gcatttgtga 360
gcagagcctg gcaccggcgg agtgcagagg acttactttt gcttttccag attataacat 420
gcaactgagc tgctggtatg ttaagaac 448

<210> 7267
<211> 319
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-020-Q1-E1-H4

<400> 7267

cgacgggagg cgctggtgga gcaggagggg ctcttctggt tcgggagctt ctggggcccg 60
acggagcagg gggaccccg gtccgcggag gatcagatgt acgcaggctt gagcttgccg 120
gtagtctag agagagtgcg cgattaggca ccgacgacga tgcagtttga tgcaagcggc 180
ttgcattgca gcttctagat gaggtttcta cttttccatc cgggcatcat tcggtcattg 240
cactgatgat tccattcctt actgtacata tggtatcatc atggtacgcc tatcaatcaa 300
agggacaatc ctgaacaat 319

<210> 7268
 <211> 473
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-020-Q1-E1-H6

<400> 7268

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attccccgggt ccacgggctg cataaaaaag gtccttatca caagtggcaa tataaagtga 60
cggttccctcg cattaagatt ttgtgcatcc aactataaaa gcgcatggca acctctgctt 120
ccctctgcga aggggctatc ttttattctt gtcttttacc ttatgcaaga gttatgggtga 180
tcttcacctt ttccttttta catttatcct ttggcaagca cattgtgttg gaaagattct 240
gatatatata tatatatcca attggatgta aggcacatg agctattatt gttgacatta 300
cccttgagggt aaaagggttg gaggtgaatc tataagcccc tatctttctc tgtgtctgat 360
taaaactttg aaccataaaa tatcgctga gtgtagcaa ttgtgaaaga ctaaagata 420
gttgagtaaa tggagtttgc taaatcaaag ctctgacata aactcctcct gaa 473
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<210> 7269
 <211> 457
 <212> DNA
 <213> Triticum aestivum

<223> unsure at all n locations
 <223> Clone ID: LIB104-021-Q1-E1-A1

<400> 7269

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gggtccacgg ggttcgaaca gcggccagtc ctggcttact tccaaggagc cattcacaag 60
gaaaagatgg gtggaaaagg ttcgtcagaa agctgttaca gcttctcaag gacgagaaag 120
acgtgcactt cacctacggg agcgtccggc agaacgggat caggcgcgcc accaaaggca 180
tggcatcgtc caagttttgc ctgaacatcg ccggcgacac gccctcctcg aaccgcctct 240
tcgacgccat cgtcagccac tgcgtcccg tcataatcag cgacgagatc gagctccctt 300
tcgaggacgt cctcgactac tcggagttct gcgtgttcgt ccgtgcgtcg gatgctgtga 360
ggcaaggctc cctgctgcgc attctccgan gcgtgaccag ggaccagtgg actaccatgt 420
ggagaaggct gaangangtg gotcatcact ttgagta 457
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<210> 7270

<211> 53
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-021-Q1-E1-A11

<400> 7270

cgtagcgtgc tccccagcag gcgtccaccg gtcggggcgtc tcatcctggt gtg 53

<210> 7271
<211> 341
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-021-Q1-E1-A12

<400> 7271

cgcctgcttg tacgggccct aaattcccga gtccacgggg gtactctgtc tctaagggtc 60
gttccaatct caccatttta ttgattgag atgagagagg ggtcagggtg cacgcggtgg 120
ctgttcgtgg ttgctgtctg cttatgtact gtgcaatttt attttttatt tttttggaga 180
tagttgctgc tctgtgctag aaggagggat gaacagagga gaaacaggac agggctgggt 240
gttgctctgca cacagagata ttgagataat tggactatt gttgtaaaat gttttaatgg 300
aaaaaaaaat cctccattcc cttgcaaata agtttggttt a 341

<210> 7272
<211> 458
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-021-Q1-E1-A2

<400> 7272

cgggtcgaca ggaaaaaatg acgtaatgag atgatggtgc catcaagaag ttttcgacga 60
acgtagtagc ggccaaaaat gaaactcttg catgaaagac cggatttgac gcaagatgaa 120
tggcgttggg gtttttcaaa tgaaaccgt gatcagaaag tcaccaacgg agccatacaa 180
tctatctagt agtgtgccat ggcacggtac tccgcttcgg caatggaagg agcaactgtc 240
tattgcttta tctcatccaa gatagtgtct cgtctcccca taaaatagat aagcctgtag 300
ttgagcacct atctgaaggc ccaatcggca tcagtagttg cacgcaactc taaagaagac 360

gatgatggaa aaaaggacgg ctcgagaaaa ggtacctcga atatatctaa gaatctgatg 420
aactgctgca aagtgaactg accggggggc agccatgg 458

<210> 7273
<211> 479
<212> DNA
<213> Triticum aestivum
<223> Clone ID: LIB104-021-Q1-E1-A5
<400> 7273

taccggtcct aagctccggg tcgacagggg atgactccta atatcgacat taagttatac 60
actcacatga tttcaaaatt attggcatac tctatgtgct tcacttatat cttatgtgcg 120
atataggttt tgctctagtg cttcacttat atcttttaga gcatgggtggg ggatttggtt 180
tatagaaact attgttctct catgcttcac ttatattatt ttgagagtcc tttagaacia 240
tatggcaata ataaaaactt tcatacaagt gcattgaata ttatgagaag tttgatactt 300
gataatcggt ttgagatatg gagacggtga tattagagtc atgctagtgt agtagttgtg 360
aatttgagaa atacttgtgt tgaagtttgt gattcctgta gcatgcacgt atggtgaacc 420
gttatgtgat gaagtcagag catgatttat ttattgattg tcttccttat gagtggcag 479

<210> 7274
<211> 422
<212> DNA
<213> Triticum aestivum
<223> Clone ID: LIB104-021-Q1-E1-A7
<400> 7274

gggtcgacgg ggatagtaaa tgttatcgac acccgtagca ggagaatttt gaggggagca 60
gtgaggaagg gacacctagt aagagcaaat tccaattgaa actcagagat ctccggagaa 120
gcacttcctc gtttgcttta ttggacagga attatctcac tcccattttt acctctcaac 180
acgaggacga tgatgacgat gacgacaacg acgatgattc ttgtgaagtg ttggcgatac 240
ccaggcccag cgcttagatg ttgggaaggc tatagctaata gactgcaagc acaaagtgc 300
cgggtttttg cggatttaca cgaagaagct ctcagggctg gtaccagttc tgggttcgtc 360
ggagttttga caaaaactgt tctgtctgcg ttgagataag ctcttctgat ttcttctgat 420

<210> 7275
 <211> 241
 <212> DNA
 <213> *Triticum aestivum*

 <223> Clone ID: LIB104-021-Q1-E1-A8

 <400> 7275

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 agactaggaa ggatgggaca tcaacatctt ccatacacta gttgcaatgc agatatacacc 120
 ggtaacgtat atccgcgtct gcctcagtag tgaagcatca tcaatccgca tgtttactac 180
 acatcagtaa ggtgttttag actatgacga caacgacgat gattcatgta aactgttgcg 240
 t 241

<210> 7276
 <211> 391
 <212> DNA
 <213> *Triticum aestivum*

 <223> Clone ID: LIB104-021-Q1-E1-B1

 <400> 7276

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 gagagtcaaa aggagaagct gaaggtcgat cacatgttag aggatcaciaa aaaaggggtg 120
 taccccaatt gcgaagatgg caacacaaag ctccgggacca tactggaatt gctgcagtgg 180
 aaatcagaga atgctgtgcc tgacaaagga tttgagaagc tactgaaaat attgaagaag 240
 aagcttccaa aggataacga attgcccgcac agtatgtatg cagcaaagaa ggtcgtatgc 300
 cctctaggat tggagctgca gaagatacat gcatgcccta atgactgcat cctctaacgc 360
 gatacgtacg aggatttgaa ccatgcccgg t 391

<210> 7277
 <211> 423
 <212> DNA
 <213> *Triticum aestivum*

 <223> Clone ID: LIB104-021-Q1-E1-B10

<400> 7277

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ttcccgagtc cacgggaggt tcacaggaga gaaacgacgg agttagaagt tgtaaatatg 60
cattgttgta tcgcgacctg aatgaaataa acgaaataat gctcttggtc aatcgtcagc 120
ctccggttca agtactgcac caagctgtta ttttttacct ttttgaaaag aagcacgtgt 180
tgctgtgttt attttatatt tttatctaag gatccagaca tctacaaaca caccagtgta 240
accaccaa at ggtcatatac ccctaaaacc cctttgcggg gcaagggcca aaataattaa 300
ttcaaccaat taataagggc ctccttcaag gttaaaaaaa aaaaaaaaaa aaaaaaaaaa 360
aaaaaaaaa attaaaaaaaa aaaaaagaaa aaaaaaaaaa aaacggggcg tccaaaggat 420
tca 423

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<210> 7278

<211> 425

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-021-Q1-E1-B11

<400> 7278

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ccgcaagtgg acgtgcatcg gcatcgcat cctgctcgtc gtcacacctca tcatcgctcat 120
ccccatcgty ctcaagaaca ccaacaagag caacaacaac aacaaccagc agtagtagga 180
atagcttgty atgatatgat cctggcttgc ttgcatgctt gctgggtgtt gttgatcggt 240
ttttgtggaa ttttttgcga ttgtaattac tccatccgtg cggttcgttg agccaatcga 300
ttatgttata taactatata cttttcggcg attaaaaaaaa aataaaaaaaaa aatagggaaa 360
aaattttattg aattaataga taaaattgaa aagattttta aaaattaagg aggagtaaat 420
aaaaa 425

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<210> 7279

<211> 288

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-021-Q1-E1-B12

<400> 7279

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aagaccatga cccgaagagg gacgtggacg ttggcacggt ttctatccgc ggtttccatc 120
ctgggccaag ctggccttgg atcgctcccg ctgtagaaga gccgccgtag agattgatgt 180
ggtcagattg ccccaacgaa gttactgggt ttacaactac taccatcagt actgctgcta 240
tgtgcaaagc tccatgcatg atttccaaac ttgaattaag ctttttttc 288

<210> 7280
<211> 463
<212> DNA
<213> Triticum aestivum
<223> Clone ID: LIB104-021-Q1-E1-B2
<400> 7280

cggggtccaca gggcgacggt ggcgatggac tgccggccgt tcggcggcgg cgagagcaag 60
ctcaaggcgg aggcgacgac ggacaacaag ggggtgtaca agatcgagat cgatcaggac 120
caccaggacg agatctgcga ggtggtgctg accaagagcc ccgacgcgtc gtgcgccgag 180
atcgaggagt tccgcgaccg cgcgcgcgtc ccgctcacca gcaacaacgg catgaagcag 240
cagggcaccg gcttcgcaa ccccatcgcc ttcttcccca aggagccgcg caaggagtgc 300
ggcggcaccc tccaggctta cgacctcaag gacgcacccg agaacccatg aacccccatc 360
ccatccatat agtctcgctc agttgcttcc catcatcatc atcatcatc tctcctcatg 420
actctcctac gtacggtgcc cttgcctagc tacttctgtt cca 463

<210> 7281
<211> 442
<212> DNA
<213> Triticum aestivum
<223> Clone ID: LIB104-021-Q1-E1-B4
<400> 7281

gggtccacag ggatgggtccg cctacgcagc tcggacggtc aggagctcga ggtgatggag 60
gaggcgatcg ccgccgcgtc taagacgatc aaggacgcgc tggagaaggg cggcgccgcc 120
gacgacgcca tcccgggtccc cgacgtcacc ggccgagtc tctcccgct cctcgagtac 180
gtcagcaggc acttctccga cccggccgcg gccgccgacc cgttcgacta catccccaac 240

ttcgacaacc cgctcaaggc cttegacgac gccttcgtcc aggtcgacca ggacacgctc 300
 ttcgacctca tccacgcggc cgagtgcctc gacattgagg ggctgatgga cctggcggtg 360
 aagacggtgg cggaccagat gaggggcaag accatcgagg agatccgcaa aaagttccac 420
 gtcgtcaacg actacacgc ac 442

<210> 7282
 <211> 451
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-021-Q1-E1-B5
 <400> 7282

attcccggga ccacgggtca tctaaacgat gaactcaaag tggacaggcc attgtcctgc 60
 ctgctatacc ttcgtctgag tgactgcagg gtaactacga tagaactcaa cgcceccaaag 120
 ctccaaacct ttatattcca agggaggctg gtgcctattc accttggcga atcttcagaa 180
 ctgcacaata ttgttattca ttcttataca ctaacactag agcaagctat ttgttcattt 240
 gctgatgcgt atccactagt gcaacgcctg actctgtgtc acacttgtgc actaccgaag 300
 ttcccctggc gattggacaa tactttctagc ttttctcatt tgagatattt acaactgttg 360
 ttgaatatct tctctgaaca tgccaacgac attctctcta ttgcatattt tctagaggct 420
 gctocattcc ttcaggagtt tgatttggag t 451

<210> 7283
 <211> 381
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-021-Q1-E1-C11
 <400> 7283

ttcccagatc cacgggcgct tgcacaggat accaagcgag tgtttaggat cccacacagg 60
 gcatttcttg acatgctcct agcacacctt gggctaata cgggtcagt atgatcgtgt 120
 tgtacatgag gacggcaaga tctgtgtgac catctttttc aacacctgta cattggatct 180
 tggaggacca atcagtatga acgcgtcgtg tcatcattcc tcttggctta cattatgccc 240
 agacatgcaa agttgtggat cgtctgtaag ctaccatttg ctttcgtatg tcctatgtct 300

gtgatatttg caactaaacc tattgtgcta cgtgctttct atgttcgtac attgttaggt 360
ggctccttat tgtgtgcata c 381

<210> 7284
<211> 365
<212> DNA
<213> Triticum aestivum

<223> unsure at all n locations
<223> Clone ID: LIB104-021-Q1-E1-C12

<400> 7284

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cgaggggtgtt gttgaggaag atgatctcgt cgagcgtctt ggccatgcgg ccgatgctct 120
tgggggatgca tccgacgaac ttgttggttg cgaagacgac gacggaggcg gtggagttgc 180
cgatggtctc cgggatgggg ccgacgaagc ggttgctgtt gacgaagatg gcgtcgtatg 240
gcttgctgaa gagcgcgggc ggcagctcgc cctcgaactc gttgaagcgg atgtcgatgt 300
acttgagcgt gggcatctcg aggcagacgt angggacagg gccgacgaag cggttgttgc 360
tgacg 365

<210> 7285
<211> 301
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-021-Q1-E1-C2

<400> 7285

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tttcgtacta catcttgatg atatttggca ggaaacattt tgcgcagggt tacaacgtga 120
ggaaactctt caacacatct agagtatgga ccattcacac gccattggtc catcatgcag 180
tatccgcgct tgggactgga acttcagctc acccgtgcat tataggcccg accagtcagt 240
acaatatcct accataacac gtgacgacac caccgggtca ttactctaac cctttggtta 300
a 301

<210> 7286
<211> 462

<212> DNA
 <213> Triticum aestivum

 <223> Clone ID: LIB104-021-Q1-E1-C9

 <400> 7286

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 aggtgagggga gatggagtcg atagaatccc taaggaaagc tttttgcaag cagatcaaac 120
 aaactggagg ggtggcgctc catgctcggg agggtaggca gtcgatgatgc ttattaggga 180
 tgggagttgg tagttgggac ccaggatcgt ttatgggctg tgtgggctga ctaggccccgt 240
 ttcttgcttt gcctattttc caatgcttct gtgtgcagaa ccatgtgcta ctttagtggt 300
 tgtgcctaag atctattggt cacgaacccc aaccttcgat ttgccgaacc ctgatctctg 360
 atttgccgaa cccgaccttc gattcgctga accccaatct ctgatttgag atctgccaaa 420
 cctgaccttt gattcgccaa atcccgatct ctgattcgcc aa 462

<210> 7287
 <211> 448
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: LIB104-021-Q1-E1-D1

 <400> 7287

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 tttcatgaat atatttgaaa gggattctct tctctattgc aatatgtcat ttgatgcact 120
 gttaagtgtt cgaaagcaac ttgaagaatt tgaatttcct tgcaaagctg taaacgatgg 180
 tctttggctc cagatgctcc tgtgccacag agtgcaagca atagttgctg atacttgacg 240
 aaactgttgc cttacaagta attcttgctg ttgtaaacaa gcatatgttg gtacacacag 300
 ccactacagg caggagcatg ataggacaag tgcttcagga actgcaggta gtatctacct 360
 tgcagatgcc caaggcgatg ggaatggtat gtttagtcct gtgcgtgtta acgtaagagg 420
 agcagttgat ggacttgctg gcattggg 448

<210> 7288
 <211> 432
 <212> DNA
 <213> Triticum aestivum

<223> unsure at all n locations
 <223> Clone ID: LIB104-021-Q1-E1-D10

<400> 7288

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tttgatggct gggagaagat cgactccaaa gagaagacgg ccggcgagct gaagaacaag 120
cctagggaga agatcacaag atggaatgag ctcttggaag ctgcaaggga gggttagtgt 180
aagggccaca catatgcatc tgacggagct gctggttcat gcgtaaaactg aatcaaagaa 240
acaaactacg agggacaatc tgaatactga cacaacagaa agaaagtcaa gtgctaattgt 300
gtcttagcaa tgaatcatgc gtaccaatac tgggttaaaat cccaaaaggc tcgatcactg 360
aagccacatg aaactactgt attcgtgaga tgcanctcgt ctaaatacatg ggcattcctt 420
tggaaaaaaa aa 432
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<210> 7289
 <211> 388
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-021-Q1-E1-D12

<400> 7289

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caacctcaag ttggtggaga gcggcgagaa ggagcggctg atggagcttc tccgggagcg 120
gctcgtagag tgcggtgga gggatgacat gaaggctctc tgcagggtt atgcaaggaa 180
aaaggaaga aataatgtaa cattagatga tcttattcat gttattactc caaaaggaag 240
agcctcggtg cccgatgcgg tgaaggcaga gctgctgcag cgcacccgat cctttctcat 300
gtcttctctg ctttggtagc ccatgaatca cgccgatcgg aaggcacgtg taggaagctt 360
gaagcatcga tcttgaacgc gtgacact 388
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<210> 7290
 <211> 303
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-021-Q1-E1-D2

<400> 7290

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gcagagcatc atactcatcg agtacctaca ggaacggatc gtgatgcaat gcgctttcgt 120
caatgatatg catgatagcc aaatgcacct ctacctatgc gtctagacga gacatactag 180
gtacttggga ttctttttgc agtagtaaat atatcgtcgc agcgagcgta ttccaaaata 240
tattaacggg acctcgagtc gcagaccaat gagcagtgc ctgatacaat catctcaa 300
atc 303

<210> 7291

<211> 452

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-021-Q1-E1-D3

<400> 7291

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tcattaggag aattaatgat gtgatggaca tgacccatcc cttagcttag cattaagatc 120
actacagttt cattgctact gttttcttca tgcttataca tgttcctcgg actatgagat 180
catgcaactc ccgaataccg gaggaacacc ttgtgtgcta tcaaacgtcg caacgtaa 240
gggtgattat aaagatgctc catagggtgc tccgaagggtg tttgttgggt tggcatagat 300
cgagattagg atttgtcact ccgtgtttcg gagaggatc tctgggcccg ctcgctaata 360
ctcatcacta taagccttgc aagcattgtg actaatgagt tagttttggg atgaagtatt 420
acggaccgag taaagagact tgccggtaac ga 452

<210> 7292

<211> 448

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-021-Q1-E1-D4

<400> 7292

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tggaactttt gcacataatt attaaagata gattttcgtg ccatgcgtaa accaagctgc 120

tgagagtcta cccagccac aagggggagc tgctccagta gttcaggata cccacccag 180
 cccacaagg gttgacggac cccctaccta tacctatacc tgatgattac ctatacctga 240
 tgattttcaa tccacagctc attttcttga atatgtgaca agccttgcaa attgtgataa 300
 tatgtatcaa attagtggtc cgcataaccc aatatttgaa aattatggag gtgcaggccc 360
 aagtacttcg aatcatcaac aagaaatcca agaaagaaca gcgaaggaaa aacgtgacaa 420
 gaaaagtgtt ttctcgactc gagatggt 448

<210> 7293
 <211> 441
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-021-Q1-E1-E1

<400> 7293

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 gacgataaaa taaccttgat gtccgtgaga tggcagttgc aaatcaaatt acgagcggct 120
 atgaacgccc gagtagcgat tattaaatga gcaaaggctc aaggaatatg aagaaacttc 180
 tatggattac tacgatttga gagctgacaa tgggtgtaa at ggacaaaaaa taccagtgtg 240
 attcacaatt tgacaagtgg tgaagccaag tccagggtcaa agcaatcgaa aacagaaaat 300
 gttcagattt gggtacaact atagatctgg aaaatatttg aaaaagaaaa gaaaaacct 360
 ggtatgggtg agctgctagg tgaagaaacg gcaatggagt ccacttgggtg caacaagagg 420
 gatctaaaac gtgatcaatt t 441

<210> 7294
 <211> 416
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-021-Q1-E1-E10

<400> 7294

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 gaggagaggc tgggaaagct tggctatctc gttggaagcc agctaggcag ctgggttggg 120
 ggaagaatcg gactgatggt ctatgatgtc atcaacgggt tgaactacat gcttgagttt 180

gtccgtccag aggagtatcg atcatcatct tacgcagcag aagagggctc agagtatgca 240
gataactaca gaagttcgtc ttacgtatca gaagagggct cagagtatgc agataactac 300
agaagtcgcg aaggatatga gccaacatac agtgagacgc cagaagaggc gcaggcggag 360
gaggattcgg ggggtttcag cttgtttctga aactgcaagc ttggatatca gccgac 416

<210> 7295
<211> 432
<212> DNA
<213> Triticum aestivum
<223> Clone ID: LIB104-021-Q1-E1-E11
<400> 7295

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ttcccgctta gtatagggga aggctagcaa aagactggca agcgaccaac tgagagagcg 120
acaacagtcg taaacatgca ttaaaattaa ttcacaccga gtacaagcat gagtaggata 180
taatccacca tgaacataaa tatcatgaag gttatgttga tttcattcaa ctacatgtgt 240
gaaacatgtg ccaagtcgag tcaactcaatt catttaaagg aggataccat cccatcatac 300
cacatcataa tcattctaatt aacatgttgg catgcaaggt aaaccattat aactcatagc 360
taatcaagca tggcacaaga aactataatc tctaaatgtc attgcaaata tgtttacttc 420
ataatagctg ac 432

<210> 7296
<211> 448
<212> DNA
<213> Triticum aestivum
<223> Clone ID: LIB104-021-Q1-E1-E4
<400> 7296

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tgaagttagc aagtcctgta gcatgcacgt atgggttaaag ttgtgtaaca aatttgaagc 180
atgaagtgta cctggcttgt gcatccttat gagtggcggt ctgggacgag cgatggtctt 240
ttcctaccaa tctatccctt taggagcatg cgcgtagtgc ttggtttttg atgacttcca 300

aatttttata ataagtatat gaggctctttt gaccaatggt gaggccatgg attatatgca 360
 cttttacctt tccatcattg ctaggctttt cggtagcgtg cattgccctt tctcaccttg 420
 agagttggtg caaacttcgc cggtagcat 448

<210> 7297
 <211> 197
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-021-Q1-E1-E5
 <400> 7297

acgggtcaac gaactcattg gcgcaatgat gaaattgcta cttgaaaatt gtttttagtat 60
 atggaagtaa tgatattaat ctcatgcaaa ttgggtgatt atgacctgat acaaagcatg 120
 gggtgaagtt tgcacgtccc gttacaggca cgtgtcgata aagttgtgtc acataattag 180
 tgcataaagt gctacca 197

<210> 7298
 <211> 461
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-021-Q1-E1-E7
 <400> 7298

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 gacggcgagc acaagaagga cggggagcac aaggaggga tgatggagaa gatcaaggac 120
 aagatcagcg gcgacggcca cggcgacggc aagaaggacg gcgagcaca ggagaagaag 180
 gacaagaaga agaaggacaa gaagcacggc gagggccaca aggacgacga cggccacggc 240
 agcagcagca gcgacagca cagcgactga gccagctccg gccgcgtgca gtgcagggga 300
 gatgaacgagc tgggttaatt tggagcgtgt ggtagcatat gtatgtaatg cttgacatgt 360
 ctcatggatc ttgtaatgta ataaccgggt gactgcatg gtgcttgtaa taataacgtt 420
 aatgaatttc cattgggaat ttggtaccat ccttaacaaa a 461

<210> 7299
 <211> 182
 <212> DNA

cgtagcagga gtcgtagcac tagtcctgat gattacaaga ggcgtggcag agacagaagt 180
cctagtcgta gcaggagccg cagctacagt cctgatgatg acaggaaggg tggcagagac 240
agtttgtcgc ccgcacgcag aagcactagt cgctcccctc gcaagacacc acctcctcgc 300
aagacaccac ctccttgcca ggggtctcct gctaagcgca atgatgaccg ttctcctggt 360
aggcgcaatg atgaccgttc tcctgttagg cgcaatgatg accgggtctcc aggctctcgt 420
agcccttcaa catgagctga atgtcaaaca act 453

<210> 7302
<211> 456
<212> DNA
<213> Triticum aestivum
<223> Clone ID: LIB104-021-Q1-E1-F2
<400> 7302

gggtcgacag gaagtacgca cccaacgaca aagatttgat ttttcaggga atttatatgc 60
actggagcat gcgcatgtag ttcaaatttg aattatgcac ataaatgcat tgaaaactca 120
cttaatgcat aaaaatttcc aaacaaaccc cgaaaaatca caaaaattca cacaacactc 180
ctgttggttct atgttgacag gagaaaaaaa cttgaaagca ataagaggca atggatatcg 240
tttcgtcccc aaaggtggga cgttccctac cgaaaaccat catgcttggt gtgagaagct 300
ccggtttgtg agaagcatat acccaaacct cccccaatg ggaaacaatt tgtaccacgg 360
catgttgatg ccgctccatg atagcatgcc aagtttcatg aatttcagat gagttttgga 420
tttactagaa tttaaaaact aggcattctca ctgttt 456

<210> 7303
<211> 376
<212> DNA
<213> Triticum aestivum
<223> Clone ID: LIB104-021-Q1-E1-F3
<400> 7303

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acggaatccg gaacaacatt cccaattccg gccaggtaaa ccggttgctg aaaacaaagc 120
attgcactgc aatttggaat tggttaaccg agtgcattgc ccggtcaagc gtcgttgctg 180

cacgcagggg ctggccctgc atggattgat gtatTTTTac actcaagctc gcaatgtaac 240
 accgacattt gttgttctct agcatctact actatacgtg attgcaacga acggaccaag 300
 acatctgatg aacacttgtc atgtttccct gtcgaaaatc tttaatatat caggaagcgt 360
 tgctgctctg catcta 376

<210> 7304
 <211> 264
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-021-Q1-E1-F9

<400> 7304

ttccgggtcc acgggccatg ttcacatgaa aggccagccc atacagcagc agaacagcag 60
 ctgctgctcc tcataagctc agcaagtcga gcagtgaatt ggatatactg aatacagaat 120
 ttgtatacaa cagagcgtgt gttaatactt actgtttaat atacttgtca cagtttgagc 180
 ttgttctaca atctcattag tcattacttc gtcagtgttt taggcgcatt tgatggatgt 240
 taggttacia aaattgtatg aaaa 264

<210> 7305
 <211> 343
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-021-Q1-E1-G11

<400> 7305

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 ttggtcttag caactttaat agcctcctcc tccactcccc acccggcgac caacccccgcg 180
 atccggcgag cccgagatgg ggttcctggc gacctccgcc atcttcttcc tcgccggctt 240
 catcgcatgc ctcttctcgc tcctctgctg caaccgcggc gcctccacca acatattcca 300
 tttgacctg gtcatttacg ctacagtttg ttgttgatg atg 343

<210> 7306
 <211> 464

<212> DNA
 <213> Triticum aestivum
 <223> unsure at all n locations
 <223> Clone ID: LIB104-021-Q1-E1-G12
 <400> 7306

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gggattcttt cttgaccacg tcatcagtaa aaccggagaa taccatgtgg aaattgattt 120
caaatcctag ctaggggttt gtaattataa gagatcttat acatattgta catgtatgta 180
gccagtagcg tcggatacat gatacgaaaa cttgttggtc gaccaacctc tcggagaagg 240
agaggtcgat cgatcacttc tctcggtatg catgacgaac ttctgtactg aatgggttctc 300
tcgatcactt atgtatatat agtacgtagc gtccaagcac ggacataaga gaggacactt 360
ctctctatta attagctagc taacacaata tatganacac ctaattaaat taacccccca 420
acacccccaa cctcccctcc tttcaaaaana aaaacacaaa aacc 464
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<210> 7307
 <211> 450
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-021-Q1-E1-G4
 <400> 7307

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tcacgtggca cgtctgcatc tatccgcgtg gtgacaagta cagcactgat tgcctcagct 60
tgtacttata cctggatgca tcggatgagc tccgtctcga gtccaagaag gtggttgtaa 120
tgactctgtc catcctggac caaaagaatg ggaaacactt gactgcaatt tcaggtctct 180
tggtgtttac ggggtggacgc ggctggggat gggctgattt ccttggactc aagaatctga 240
aggacccggc gggaggctat gttgtgggat cgagctgcgt tgtgaaggcg gatctcacta 300
tcgttggttc atccaatgat ggtagatgt tcacctcatg gcctgatgga gagataatgc 360
ccttgcaccc tacttataac tagacttcta tttgagataa tggtgtagta gcactactaa 420
aaacttggtg gatgatttag tagtaatgag 450
```

<210> 7308
 <211> 361
 <212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-021-Q1-E1-G5

<400> 7308

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attccccgga acacgggcat aaatgatacg tctgcatcta tccgcgtggt gactagttca   60
gcactgattg cctcagcttg tacttatagc tggttacatc ggatgagctc cgtcgccagt  120
ccacgacacg tggctggtgt gactctgtcc atcctggacc aagcgaatgc gaaatacttc  180
actggaattt cacgtcacct ggggttttac ggtggatgcc gctggggatg ggctgtattt  240
cctatgtctc agccatctga ctgacccgga cgcaggctat gtcgtgggat caatctgogt  300
tgttatggcc gatctcacta tcgttgcttc atcgagtgat agggagatgt tcacctcacg  360
g                                                                                   361
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<210> 7309

<211> 451

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-021-Q1-E1-G7

<400> 7309

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cagggtcgag gaggggcacg agtgagggtc atttggttgt actgcatctg ccaaagcact  120
attgagacaa cgaatttcag ctatatagg agctgaacca tattaagtat gtgcatcctg  180
ggtggaatgc tttctgttca tgagctggcc tcccagcatg tactgttgag aaaagaaaag  240
aaggagctt tcaagttctt atgaaaagca agagagcttc taagttctac aactagagc  300
tggcgtaacac gcgttctcag agctcatgtc cagggttca tcagagctat tttctatgct  360
ggaaacctaa aacaacaaag attttcaatc caccagact aatcaaaatt tgtctaaagt  420
ggaacggatg gtcgtcactt ttgactaagc t                                                                                   451
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<210> 7310

<211> 199

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-021-Q1-E1-G9

<400> 7310

cgggactcga gtaaagttgc gtggccaagt tcttgttttc aaaaggtttc catataggcg 60
ttcagtgta tgacgttggg aataaaagtc tattgctgtt cttattaatg cgacgacact 120
agtgtagtat gttgtcacca cgctgcatca gagcgtggtg agtggtgtat gttgtcggtc 180
aggcaaaaag gagatgggg 199

<210> 7311

<211> 432

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-021-Q1-E1-H1

<400> 7311

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agggtcgagg aggggcacga gtgagggta tttggttgta ctgcatctgc caaagcacta 120
ttgagacaac gaatttcagc tatattagga gctgaaccat attaagtatg tgcattctgc 180
gtggaatgct ttctgttcat gagctggcct ccagcatgt gctgttgaga ttcgattcac 240
tgggagcttt caagttctta tgaaaagcag gagagcttct aagttctaca cactatagct 300
ggcgtacacg cgttctcatc gtcattggc atagcttcaa cagagctatt ttctatgctg 360
gaaacctaaa acaacaaaga ttttcaatcc accagacta accaagattt gtctaaattg 420
gaacgggtgg tc 432

<210> 7312

<211> 449

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-021-Q1-E1-H2

<400> 7312

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gaacgagcta tttcattgaa tcgagatatt tcattttgtg tttgattccc attttttagt 120
gggtcaacta tttgtcatat agtaaatgac tagcaacgag catgtaaaaa cacattactc 180
ccgagcatca tctctccgac taaaaaagaa gtggcaagct aatatttcaa aatttgattc 240

acatcgactt ggtaaggtat acatggatgc tcgttctccc aaattttgaa tgatctgtta 300
 aacatcctct gctcgggtga attcactcga gcaaataaat gggagacgca aaattaccgt 360
 cctatgtggg acacgcatca attggcccgt tctacatcga gggtaggttc gtaacttcat 420
 ccaaccgcgc cttctcctcg gccgaaatg 449

<210> 7313
 <211> 396
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-021-Q1-E1-H3
 <400> 7313

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 catgccattc cataccgcgt cagaaaacgt caagcaggtc aattcactgc acgtcactgg 180
 acaacgtatt atacgctaaa gacggggaga tacctatctt aacccatctg gaacacattg 240
 caggttacct acctttcgtc atacggctta acgccgaaca ggtctccatt gctaacattt 300
 ccgaaaagtt aatgaccaa atgacccact gtgaagcgcc ccattaccgg ccatgaatct 360
 catcgggtatt cacagttaca ccaaggggtca tcacaa 396

<210> 7314
 <211> 446
 <212> DNA
 <213> Triticum aestivum
 <223> unsure at all n locations
 <223> Clone ID: LIB104-021-Q1-E1-H4
 <400> 7314

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 actagatgca cttacaagtc acccgggggat tcatggatgg atatacactt tggaccagac 180
 acgatgaaga gccagtcatt gatggatata ccaggggctg cgacatgcca aatcccgatc 240
 agagtcacat ggatgttgaa tctaacatca gggctgcggc atcaagctac caatagaata 300
 ccgaaaagac aaaaacccca ctggaaaacc aagacggcga tgcagaaaat gacgacgacg 360

accttgatat gccagatttt gttgctatga ttgctgattt gcagggccca aaaaaagata 420
 tggttgggta caangacctg ccatcc 446

<210> 7315
 <211> 438
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-021-Q1-E1-H6

<400> 7315

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 gaggcaciaa aggacgagga gcacaagaag gcggaggagc acaagaagaa ggacggggag 180
 cacaagaagg acggcgagca caaggagggc atgatggaga agatcaagga caagatcagc 240
 ggcgacggcc acggcgacgg caagaaggac ggcgaccaca aggagaagaa ggacaagaag 300
 aagaagaagg acaagaagca cggcgagggc cacaaggacg acgacggcca cggcagcagc 360
 agcagcgaca gcgacagcga ctgagccagc tccggccgcg ctccggcagc agcgtgcagt 420
 gtaggcgaga tcgatgaa 438

<210> 7316
 <211> 85
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-021-Q1-E1-H8

<400> 7316

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 cataaacaca ttagaccctt aacct 85

<210> 7317
 <211> 265
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-021-Q1-E1-H9

<400> 7317

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 gcaagatgaa cttactgggtg aagttccagt tgcattcatt gtgcggattg aaggctctga 180
 gatcagcgag agcgagatca agcagttcgt tgcaaaagag gtcgttttct acaagaggat 240
 ccacaaagtt ttcttctgctg actcg 265

<210> 7318
 <211> 386
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-022-Q1-E1-A3

<400> 7318

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 tccccagttc catccatta ttggttcttg cgaggatggg gcggagaaac ggaagcatga 180
 agcggagagg agatcaggca gcccttcattg cacagagggc ggcgagggag ggcgcgatgg 240
 cgtccaagag gatacagaag gtgctcaagg atctgcagta ggatcccccc acctcatgca 300
 gtgcaggtca tgtgggtgaa catatgttcc actggcacgc aacaataatg ggcccatctg 360
 acagcccata ttctggtgga cttttc 386

<210> 7319
 <211> 169
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-022-Q1-E1-B11

<400> 7319

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 tgctgtcgct ggggcagcgc ccgtcagaag aggagctgcg ggagatgatc gcggacgtgg 120
 acaccgacgg caacggcgctc gtggaattct ccgagttcct gaacctcct 169

<210> 7320
 <211> 453

<212> DNA
 <213> Triticum aestivum
 <223> unsure at all n locations
 <223> Clone ID: LIB104-022-Q1-E1-B2
 <400> 7320

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 ctaagtgctg aaagtcttga tctgaaagca gctactgata taatatgttc caggacacca 120
 tcacagctgc aaataatgaa acagacatat tatgcaaagt ttgggtactta tcttgagcat 180
 gacattagtc agcaagcatc cggcgatcat cagaagatct tactagccta tggtggcatt 240
 ccacgctacg aaggcccgga ggttgatccc actatagtga cacatgatgc gaaggacctc 300
 tacaaagctg gtgagaaaaa gctgggcaca gatgagaaaa cttcatccg catcttcact 360
 gaacgcagct gggcacacat ggcagctggt gcttctgcnt tacatcacat gtatgatcgg 420
 tcgttacaga aggttgtgaa gaatgaaaca tct 453

<210> 7321
 <211> 406
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-022-Q1-E1-B3
 <400> 7321

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 atccatttat tttctatggc tcgccgatca tcgggcaagt cagtcaaagt ccatacttca 180
 ttttcataca tgtatcctat cttggatttc atggcttcca gccatttgtc ggaatctggg 240
 cccgccatcg cttcttcata gttcgaaggt tcaccattgt ctaacaacat gatttccaag 300
 acaggggttg cgtaccactc tggtgcgga cgtgtcctcg tggacctacg aagttcagta 360
 gcaacttgat ctgaagtttc atgatcatca tcattaacgt cctctc 406

<210> 7322
 <211> 378
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-022-Q1-E1-B5

<400> 7322

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gaagaagaag aagaggaaga agaagaagaa gaagaagagg aagaagtaga agaggaagaa 120
gaagaacaag aggaagaaga tgaagaagac gaagaagacg aagacgaaga agaagaagag 180
gaagaagaag aagaagaaga agaagaagaa gaagaagaag aagaagaaga acaagaagaa 240
gaagaagaag aagaagaaga cgaagacgaa gacgaagaag acgaagacga agaagacgac 300
gaagaagacc aagaagacga agaagaagac gaagacgacg acgacgaaga agaagacgaa 360
gacgaagaat aagaagaa 378

<210> 7323

<211> 429

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-022-Q1-E1-C10

<400> 7323

ggggccacgg gtatttttaa atatcacatg atatgtgttt tgcctggagc gtcaattgat 60
ttcctttgtg ttgcttgttg tttgaataaa gataccaaga tctgaaattg ttgaatggga 120
gagtcttcac gggggttgcc tacttaattg actactcatt gatctttact tatcatcttt 180
cggaatagtt tgttgtttgc tcaaatgatt cacttatatc ttttacagca cggcggggga 240
tttagtttaa ggaaatggat gaactctcat gcttcactta tatatcttct agagtctga 300
acagcatggt gatttgcttt gggatatgaat ttagtcccaa tatgatgggc atcgaagatg 360
gatataataa acgactttca tatagagtga gttgaaaacg acagaagttt gattccttat 420
gattgtttt 429

<210> 7324

<211> 138

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-022-Q1-E1-C3

<400> 7324

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aattgattga atcttaccaa tgtactaacg tgcagcatgt cataccaaag tgattgtctt 120
ggaaataaca atttacat 138

<210> 7325
<211> 301
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-022-Q1-E1-C5

<400> 7325

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tccccgaaat ccgcagcttc aacaagggga acaaccgggc ccaaggccaa ttggaattcc 180
aaaaggttcc cccttgcaat tgccaggaga caaccgaca atttcccaag gagaaccaat 240
gccaaaaagg caatggtggt cctgaatttg cccgttacca aattgcccaa ttaaggaaaa 300
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<210> 7326
<211> 398
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-022-Q1-E1-C7

<400> 7326

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gccacactta cgaaataaaa tatattcaga aatgggttcac tgaaggatac aacacttgct 180
ccaagacaca ttaaaagcta taaaactttg cgatgattcc aaatacttgc atgagggatc 240
tcatttgcaa ctggtgcaca gagcatggat tcacaatctc agattttctt ccaggcaaag 300
attcctacag ttatttgcca gagcaattgc atggtcactc tatgtcaagt ttgcacaatg 360
tttcagtacc tctaattgct gggaatgcca ggaatttt 398

<210> , 7327

<211> 372
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: LIB104-022-Q1-E1-C8

 <400> 7327

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 aacgcctact accacgagct gctggcgcgg cggggcctgc tgacctcgga caacacgctg 180
 gccctgtaca cgcagacgag gccgctgggtg gagcagtacg ccaaggacga cgcgctgttc 240
 catcagaggt tcggggagggc gatgcagaag gtgagcaagc tggacgtgat catcaagaag 300
 aacaacgggc agatcaggcg ggactgccgg atggtgaaca aagccatcga ggtacgctgg 360
 atgcccattcc ac 372

<210> 7328
 <211> 238
 <212> DNA
 <213> Triticum aestivum

 <223> unsure at all n locations
 <223> Clone ID: LIB104-022-Q1-E1-D11

 <400> 7328

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 tcctgacact gtaaattccca gggtcgaaca gttcaagaag gatagcctca ccgtgcttgc 180
 aaggctcagc aatgttccct cacacatggg gaaagaatgt acacagagaa tggcgaca 238

<210> 7329
 <211> 443
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: LIB104-022-Q1-E1-D2

 <400> 7329

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 gggccggccc ataaccaggc aacaagcgat attaaaaatg actcgaaaaa gaaatgcgca 120

cacaacagtt tcgaacacgc gacctcatgc ttactagcgg ccacgccaac aatctgacct 180
agctcctgaa tatggccaat tgaagtgcaa attttaaagt acaatgtaca acgacaaatc 240
aatTTTTTttc cttcaaaatt tccaataatt cttgcaaaca aatgtaaacg attttcctta 300
aatatatattg aaaatcgtga ataaatatcg aaattcgaac aaacacttaa aacccgaaca 360
attattgaaa acgtgaccac tattttgaaa ttccaattta ttatatacgt tattttttgt 420
aaaatatata ttaaacaatt ttt 443

<210> 7330
<211> 323
<212> DNA
<213> Triticum aestivum
<223> Clone ID: LIB104-022-Q1-E1-D5
<400> 7330

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tcaaacgggt caatcttcat gttccaagta aagtggcat aagactttta aactgtgttt 120
attgtcctat tgatgtatat gggtaaattt aagtctagag ttaaggatca taggttatgt 180
aaatttatct attgtctcaa aagtgctaaa ctacagatgc tagataagta gcgagctttg 240
gggcgtatct aatgtcgagg aacatagtaa agatgtcatt tgcacaagaa gacacacacc 300
aatctcaagt tcagtttgca cat 323

<210> 7331
<211> 423
<212> DNA
<213> Triticum aestivum
<223> unsure at all n locations
<223> Clone ID: LIB104-022-Q1-E1-E1
<400> 7331

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ggatgcaaga acagaggggac aagatccaag tcacggtctg caaacacttc cataaggggg 120
gcaatttttg caactagaag attagggggg aggtacagag agggaaatca actagttcta 180
aaactaaaag aagttcatgg ccagaaaatt ttggaacaac accttttacc tttttgtttt 240

cacttgggaa acttgcccaa ctatgccaat ttttttttgc aattctccag atttattgcc 300
 tggtcagcac ggagaattgc agacacattt gcgttttcaa aaaaatattc cccacgattt 360
 tatgtcttga tttctcgtcc tttttactat gtttttcatt gtgcaaggag agcctcccaa 420
 cgc 423

<210> 7332
 <211> 203
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-022-Q1-E1-E12
 <400> 7332

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 atttgtgatg acaacatgtc ctcgggggag cactttctga acttccatgt gagccttcgc 120
 caactcttca gggtttttca tgagctccga cataggccac accaaagtgg tcgatgagga 180
 ttcactacca ggctccaaag tat 203

<210> 7333
 <211> 449
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-022-Q1-E1-E3
 <400> 7333

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 tttgatgctt gataattggt ttgagatata gaggtggtaa tgtagagtc atgctagtgg 120
 gtaättatga aattgagaaa tacttgtggt gaagttggca agtcccatag catgcacgta 180
 tggtaaaagt tgtgtgacaa atttgttgca tgaggtgcta ttttaatggc ctaccctatg 240
 agtggaggtc gggattgcgc gatggttaac tctaccaac cttccccta agatcatgcg 300
 tagtagtact ttgcttcgag ggcaagtaga cttttgcaat aagtatatga gttctttatg 360
 actaatgtga gtccatggat atacgcacac tcaactcttc actttgctag cctctattat 420
 accatgcaac ttttcgcagt atcatgcat 449

<210> 7334

<211> 348
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: LIB104-022-Q1-E1-E6

 <400> 7334

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 cctgttttgac aactttactt cgtatagtac attgaaacat gaactcagca agtgcaacac 120
 cacacagtga tcaaattcgg cctggggcaa aggtatctcg ggaagaattg tactcagctt 180
 tcggtcataa togatagccg ctagtggcat ggcaacattg acaaggacat cagcacttca 240
 agttgagtgc catcaagtaa atgacagtgt acaattgctt cagtagatgg taaaactctg 300
 cgtctcagtg atgacggatt tgggcacagt ccatttggtg atttaagt 348

<210> 7335
 <211> 260
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: LIB104-022-Q1-E1-E9

 <400> 7335

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 gctgagcagc gacgccatgg acgcgatgat tcgggagcag agcagcttct gtgaagaaat 120
 aactaaacag gatcgggtgt cgacaatgtt gtggccgtgt gttgggtgtg attgtttgtt 180
 tgttgactg gctgcattca ctgggtgggc accacgatct atacgataat gtgtacgttc 240
 gtacgtactg tattcctgaa 260

<210> 7336
 <211> 407
 <212> DNA
 <213> Triticum aestivum

 <223> unsure at all n locations
 <223> Clone ID: LIB104-022-Q1-E1-F10

 <400> 7336

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 ggatgtaacc taagcacttc cttgatgatc atctgtaagt aatggagttc accaagatta 120

gcatttgtga tgacaacacg tcctcgaggt agcactttct gaacttctat ttgagccttc 180
gccatctcct cagggttttt catgagctcc gacatagccc acaccaaagt gggtcgatga 240
agattcacta cgagctccag gtatgtccta gaaataagag tgcatgcata tgtggacata 300
gataaaacag atagtaatta tgacaaggta aatagatgaa acatttacat cagaggtgat 360
aaaataccta accaagggtc taccgacaat cgtagactta cgagagg 407

<210> 7337
<211> 269
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-022-Q1-E1-F12

<400> 7337

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catgatggca gcatgcgata cttcagatc tgggtgctgt gagcagctgc ggactcatgc 120
tcgcaggctt cagataccta tatttgagaa gggatatgag aaggatccag cagttgtggc 180
gaaagaagct atccaggaag ccaactgaaa caaatcagat gttgttcttg ttgatacggc 240
tggccgtatg caggataatg agccactca 269

<210> 7338
<211> 120
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-022-Q1-E1-F2

<400> 7338

caaatcgaca gtagcatccg ttttccccac aaatacagta tatattatag aggattatgt 60
ttttaggagt cacgttcatt tggtagaccc aagttacaca ttcgtgacat tttctacccc 120

<210> 7339
<211> 248
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-022-Q1-E1-F4

<400> 7339

ccgggggtcga ccggcaagac gaacgactct acggagggcg gcggcataca agagggggccg 60
gaagaacggc aagaagagcg tggacaccta cagcatctac atcttcaagg tgctgaatca 120
tgtgcacccc gacatcggtg tctcctccaa ggccatgtcc atcatgaact ctttcatcaa 180
cgacatcttc tataagcccc ccggctaagc cgccaaactc gcccgctaca tcatcaaccc 240
caccatta 248

<210> 7340
<211> 77
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-022-Q1-E1-G10

<400> 7340

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atttgatgat gttcctc 77

<210> 7341
<211> 426
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-022-Q1-E1-H11

<400> 7341

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aagccgcggt acaagaagca cgacgacgac gatgatgacc acgagaggag gccgcggtac 120
aagaaacgtg acgaggacga cgatgatgac gattacacaa agccacgtta caagaaacgc 180
tacgacgacg acgacgatga tgataggaag cctcgttaca agaagcacga tgatgatgat 240
gaccacgacg atgatatgaa gcagcgctgc gggaacaacc gccgccgcca cgatgacgat 300
cactgattat gacatgagtt taagcttacc ctaataagca tagttgcggc ggctttgcat 360
ccatgaatta cgacatttca ctttttttcc aagcattttt catttcgctg ttcaactggg 420
caacat 426

<210> 7342
<211> 367

<212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-022-Q1-E1-H4
 <400> 7342

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 ccggggggaca aggaggcgct cgatgccgtg gataaacact tcgggcctga gcacggcgtc 120
 ggggcccttg acggcgggcg ggccaacgcg catgggttcg ttggcgccgg cggcgacctc 180
 gacgtcctcg ccggaaagcg tggggtggga ggccgcgggc caggaccccg ccgggtggcg 240
 cgccgggagg acgtggtaga ggagcagcgt ctggaacgac ttgaggttgc ggggctcgag 300
 caagaagcgc ttgaactccg ggtcgatgtc ccgctccagc gcctcgttcc ggggccccaa 360
 gattgtg 367

<210> 7343
 <211> 419
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-023-Q1-E1-A10
 <400> 7343

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 gcgaccacga gtgaccagcg ccattgggtga ttatgggaga agcagacgag ataagctaca 180
 gggagggagg ggaaaatgcg acgcaggact cgcgagccgt gagggtttat atagtaggcc 240
 tgtaagtatt ggatttttgg tgatttcacc gagtcgggtg ggaagctcgc gcaggaacct 300
 gcgaggttac gcatggaatg agctcactga cgattcattg gcaccacagt ttggccaaaa 360
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<210> 7344
 <211> 476
 <212> DNA
 <213> Triticum aestivum
 <223> unsure at all n locations
 <223> Clone ID: LIB104-023-Q1-E1-A11

<400> 7344

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cgaaaatccg catccgatgg agacagccta cgacctgttt ggaattttttt agaatcgtca 180
aattcgaaca ggaaaaaaag atatgggtcaa atttcagttt tttaaaaaaa aaattgggtta 240
aatttgggtca aactacttat tcaagaagta ttaatgtgac tacataatta ttcaagaata 300
tgagtgttac taaataatta tttcaatttt gtgaattttg gtcaaaactat ggtcaaaacta 360
tgcgtcaagc gtattcaaga catattagcg ttactaaata actaacaatt ttttaaaata 420
acagtttcaa actcacaacg tgaaatgtgt gacttcatgc tcaagctaaa ctctctg 476

<210> 7345

<211> 216

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-023-Q1-E1-A12

<400> 7345

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attttgtgtg atcaaatttt tgctactagt actaactatt gatgatcact gttgcaccat 120
ttatttagtt tatagcgtca caactttcca ctgtctcttt tcattctcta ccttgttatac 180
gatcgtcggc tccagctcta tcgaacgatc catgca 216

<210> 7346

<211> 390

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-023-Q1-E1-A3

<400> 7346

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caagccagcg agtaaccatg cctgatctca gcacgcgaaa tgtccacatg tgttttaatt 180
tgccagagtc ctatatatcc agttggccgc aacttattga accatccagt gttatttgta 240

ataataattg acaattagcc tgtggatgat tcccagggtgt gtgtaaacgg tgcattgtgtc 300
ctgtacatcc tgtacatttg tgtgcttata ttcagcctag cttttgtccc atgagtcagt 360
ccgtgcagct gtttgttgca cacagtttgt 390

<210> 7347
<211> 386
<212> DNA
<213> Triticum aestivum
<223> Clone ID: LIB104-023-Q1-E1-A4
<400> 7347

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gatggtgctc ttgggcagcg tcagcgatta cgctgtgaac aatgccgcct gctctgtcat 120
cgttgtcaag ccagcgagtg accatgcctg atctcatcat cgcacatgtc gcacatgtgt 180
tttagtttgc cagagtccta tatatccagt tggccgcaac ttattgaacc atccagtgtt 240
atttgtaata ataattgaca attagcctgt ggatgattcc cagggtgtgtg taagctgtgc 300
atgtgtcatg gacatcctgc ttatttgtgt gcgtaccctc agcctagctt gtgctcaatg 360
agtcagtccg tgctgctgtc tgttgc 386

<210> 7348
<211> 395
<212> DNA
<213> Triticum aestivum
<223> Clone ID: LIB104-023-Q1-E1-A7
<400> 7348

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aaaaaaaaaa aaaaaaaaaa aataaaaaaa aacataaaca agaaaaaaaa aattgaaaaa 120
aaaaaaaaaa aaaaaaaaaa aaaagggggc cgcccaaaag gttcaaacct aagttaccct 180
tgaaggcaat gtaaaacccc ttcaaaattg ccaccaaatt taattcaatg gccgttcttt 240
taaaaactcc taaacgggaa aaaccttggg ttaaccaaatt taaaccctt tgaagaaaat 300
ccccctttca caattggggt aaataccaaa aaggcccaaa cgaattgcct ttccaacaat 360
ttgccaaccc taaatggcaa agggaacgcc ccctg 395

<210> 7349
 <211> 339
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: LIB104-023-Q1-E1-B10

 <400> 7349

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gggaggcaaa ggctgctcg cggtcaagac gacggccgcc aagactgccg agaaagacaa 180
aggaataag gccccatct cccgctcgtc acgcacaggg ctccagttct ctgtgggccg 240
tatccatcgt cagctgaagc aaaggactca agccaatggc cgtgttggtg ctactgcgga 300
ggtctactct gctgctatcc tggagtacct gacagctga 339
  
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<210> 7350
 <211> 433
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: LIB104-023-Q1-E1-B11

 <400> 7350

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atccccatgg cccctctctt ggggctactg aaaccaacg gcaagatgat catggttggc 180
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catgacgtga cggcggacat cgagggtgatt gacgtcgagt acgtgaacac ggccatggag 360
cgccttgcca aggcggacgt gaggtatcga ttcgtcatcg acatcggtaa cacccttgac 420
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<210> 7351
 <211> 440
 <212> DNA
 <213> Triticum aestivum

<223> unsure at all n locations
<223> Clone ID: LIB104-023-Q1-E1-B12

<400> 7351

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tggttcagtt gatgcagcag caaagatacg gtacctagat acccggcgtg cttctaata 180
tgaagtanaa acatttgaat acaagcttct tggggaagta cgaatgatga atgctctaag 240
gaagcacaga tccatagtgg acatatatgg tcaccaactt tcttctaaat gggttcaaga 300
tgatagtgat aacgagtaca ggataatgca gtctgtaatt ttaatggaat atgtgaaacg 360
acgttcactg aacggctatt tgacanaact actgagagac ggcaagaaac atgtacctgt 420
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<210> 7352
<211> 405
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-023-Q1-E1-B3

<400> 7352

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taacaaatat gtatgatgtg aaagtacatt caataatgaa tctaattgga tttatttggt 180
attgtatatg ttaatatatt ttgttataag ctttctgaga gtttacaaaa cttgactttg 240
accaatgcta atacgcggac ttaaataaaa acggagggag tacacatttg ttttcttagt 300
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aatgtaatgg tctatacaat tcaatagtta caatcaatgg tgaat 405

<210> 7353
<211> 365
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-023-Q1-E1-B4

<400> 7353

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 ttgcgcgata accatatgtg gaaggattaa ctcaactacc aaatggcccc gtgcgaatgg 180
 gtgtacacgt actgtagtaa ttataaact gcagaatcaa gtgtcgtatg caacttgtat 240
 caggaagtcc tccgtatcaa tatcgtgtac gggtttgcta agactcgagt aaacatttgt 300
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 aacgt 365

<210> 7354
 <211> 388
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-023-Q1-E1-B5
 <400> 7354

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 taccatgata attgatttga gtctactgat tgccagaaac attgcgagca cgaacagaca 180
 ttagttaagt cacatgatcg taattatgcc ttgaacagac gctgtatcaa ggacctcata 240
 gatgcgaatg atgattacag caccaaaagt ttgcataatg tacagactgc cacagactgt 300
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 aatgaaatta tccgatccac ctgccgca 388

<210> 7355
 <211> 344
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-023-Q1-E1-B6
 <400> 7355

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gtttgagaat tcgtcagttg agttgcccta tgctattcaa taacaacatc attgttttagt 240
gcactcatgg atgcgactga tgaatagagc agctaaaatt tgcacaaaag acagtactgt 300
cacggactgt actgtgcatg acatattctg cttttcgtgt gttg 344

<210> 7356
<211> 450
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-023-Q1-E1-B7

<400> 7356

gggccacggg atcactgcag tgtgctgatg ccgcatgggg cgtcaaatta atgcaacccc 60
tccacaacgc cgtccataaa ggccatgttt cattggcaga gcctttccca ccattttgct 120
ctctctctct ctctctctct ctctctctac ccttggttag ctcttcacag tgctatataa 180
ggggcctcac ctggcgagcc attcttccta ccaccacccc accatgatgt ccatgcatac 240
ctccccacct ctctctctct cttagcgtcca gctgccgagc ccgagccaca cctgctctcg 300
gcacgccatc ggcaaccggg gcttctttgc tgactgtctg ccgaggcttt cctccacagc 360
caggcgttgt cgtccactcc gttggctcaa gggcggaacc tcccagggca ctgctccccg 420
ctgattcacg gcctggctct accctctctg 450

<210> 7357
<211> 436
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-023-Q1-E1-B8

<400> 7357

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gaggactcca caaagtacta tccccgcttt aacctggaag atacttcaag ttttagggac 120
ttggatgaac atagcaaaaa tgcctttaga agattatacc atgactatta tttcgttcgc 180
caagaaaatc tttggcgaca aaatgcactg aagactctac ctgttctatt gaactgttcg 240
gatatgttgg catgcgggga agatcttggc cttatccctg cttgtgttca ccctgttatg 300
ctagaactcg ggttgattgg attgcgtatc cagagaatgc ctagtgaacc aggcttgga 360

tttgatattc cgtccaagta cagctatatg acggtttgtg ctccctcatg tcatgattgc 420
tccacattac gtgcct 436

<210> 7358
<211> 385
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-023-Q1-E1-B9

<400> 7358

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gacaacccca aggccagtga cgccaagaag aaacaaatat gcgaggggtga ggagaatggc 120
gaagatgatg aggaagaaca agaggagcac gacgggtggag gatgtgacga cgatgatgat 180
gatgacgacg atgatgacaa tgaggacgac gacgatgatg acgacgatgt cgctgctgaa 240
tacgatgagg atggagtata agaggaggat gacgaccagg acaacgacga tgatgaggag 300
gacgatgacg aggactcgct ccaaccccc aagaagaaga agaagttaag cccttcgaag 360
ccgctgcctt aatcaccatg ccatt 385

<210> 7359
<211> 333
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-023-Q1-E1-C1

<400> 7359

ttttgttaag ttaagcgagt cacgtagcat gcaagtatgg tataagttgt gtgacaaatt 60
tgttgcatga cgtgctcttt tgattgtctt ccttatgact ggcagtcggg gaccaacgat 120
ggtcatttcc tactattcta tacctcttgg ggcattgcgta gtagtacttt gcatcgaggg 180
ctaagtcgac ttttgactt atctatatga gttctttttg actaatgtga gtccatggat 240
acacgcacag tcatecttcc actttgctat cctctattag tagagcgcag ctttcacagg 300
tctcatgaag cctttatttt tcttctacaa ctc 333

<210> 7360
<211> 435

<212> DNA
 <213> Triticum aestivum
 <223> unsure at all n locations
 <223> Clone ID: LIB104-023-Q1-E1-C11
 <400> 7360

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 tccggttttag gcagcagggg aaatcacgac catggttgga gatgacgaat taagataaca 120
 aaggcagtgg gatattttgc aagtgtgtca tggatgaatgc catattaacg aaatatctat 180
 gatagctcca tcaatattat gaggatatgt tataaagaga aatcaccatt gtgattatcc 240
 ctcgatttaa attgactgag gatccataca attcaattac atgagttgca tacattaaat 300
 gagatgatgg catgatgaca tgatgcaatg caacaagcaa ctaaaacaca tggcaaagct 360
 cggaataact ggaagtcttc tggggcgccg ggctcggggc gttacaacac tccactacta 420
 caggaggatc tcgtc 435

<210> 7361
 <211> 420
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-023-Q1-E1-C12
 <400> 7361

atctgcaagg aaattgagag catacaggct gatgaacaca tcgacatttg gcgaattagc 60
 ctcaactcct tttcaatttt gacgacacaa tatgatgaag aatagtcaca gtctgaatat 120
 atgacactta cagtctccac gtctgtatca tccagcatca ttggtgcaag gtccgagagc 180
 cgaacctcct tggcctccac ctgagttgga ttggacgcct ttgccacctg cacacgcata 240
 cacagaagag acatgataac cataccaaat cactttttta tttattgcat ggatggcagg 300
 gcaattctga atatgaagtg actccagaca cttaattcta ttgaaccatc aaaagagatg 360
 ccacacttta gtttctacaa aaggccccta gtcaacatat taacatcacc ggcaatgttt 420

<210> 7362
 <211> 391
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-023-Q1-E1-C4

<400> 7362

cggggtttcgc catgtgtttc atttgtgccc gcccttttat ttgtgcattg catcatgtca 60
tcatgccatc atgtcatttc ttttcttaac tcgactaaat aaattgcatg gatgttcggg 120
ccattttaa at cgatggatat tcacaatggg gattttctcat tataacatac cctcccaata 180
ttagggagct ataatacata gtccatttaa ttggaagcca ccgctagaga cttgcattat 240
aaatccctct catttctaaa ttattttgca tccatgatct tttctccgca tggctccttt 300
caagttgtgg cacattggca ttatgctgcc aagtggctac ttgttaattg tcagctcaat 360
tataaaatat ttggaccctc aaatattttc t 391

<210> 7363

<211> 466

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-023-Q1-E1-C5

<400> 7363

taccgagtcc ataattcgcg ggtccacggg ttacatagaa ggatcataaa gcaaagctca 60
aaactagatc atactaaagc tttattctac tagatcaaga ttttactaaa aggatcgaac 120
taagaaaaac agtaaagata ggagtgtgat ggtgatacga taccggggca cctcccccaa 180
gcttggcagt tgccaagggg agtgcccata cccatgtgtt tatgtctctt tcttcggagg 240
tgggtgatgtg atattcttgg cgatgatgcc cctcaggata caattctctt cctcgagtta 300
ttgacttgct gcttaaggtc cattatttcc ttacggagct tgcccgtgac gactaaagct 360
cctttcacca atggatgttg tatagctgcg ggagaacaag taacactctt tttcatattt 420
tcataagaaa gaaatctaac attagaaagg atgaccgagt ttggga 466

<210> 7364

<211> 466

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-023-Q1-E1-C6

<400> 7364

ttcgccggtc cacgggttac atataaggat cataaagcaa agtcaaaac tagatcatac 60
 taaagcttta ttctactaga tcaagatttt accaaaagga tcgaactaag aaaaacagta 120
 aagataggag tgtgatgggtg atacgatacc ggggcacctc cccaagctt ggcagttgcc 180
 aaggggagtg cccataccca tgtgtttatg tctctttctt cggaggtggt gatgtgatat 240
 tcgtggcgat gatgccccctc aggatacaat tctcttcctc gagttattga cttgctgctt 300
 aacgtccatt atttccttac agagcttgct cgtgacgact aaagctcctt tcaccaatgg 360
 atgttgata gctgcgggag aacaagtacc actctttttc atagtttcat acgaacgaac 420
 tctaacatta gaacggatga cggagtttgg gatagctgag ctctgt 466

<210> 7365
 <211> 462
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-023-Q1-E1-C7
 <400> 7365

attcgccgggt ccacgcgctt gtgaaaaaag ttaggcctgt aattccattt tacatcacag 60
 ccatgaacaa gacaagtcac ctgcaaggat tacgtgcca aataccttcc acatgaagaa 120
 caattcatca cactctgcca tctcataag agcaacatat gggtagacaa tttgaagggt 180
 atcactgatg gttcatgcat gctttctgtt ggctggctgt gcttcgttct ccacaacgag 240
 ttgccccgaaa gtgacatctg cctatttgaa gtatcgaaaa acgacggtga agtgacaatg 300
 gttgttcatt ctcttgaagg aggtcatcac ctacaaggga aagagcccga atctcaaaac 360
 aagtgcagtt atccagttaa ggtcgagggt accgacgaag aggagagtga caaagaacat 420
 gccgagtcca gctactacta ctcaaggtat gcctatgacc tg 462

<210> 7366
 <211> 432
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-023-Q1-E1-C8
 <400> 7366

attcgccgggt ccacattctc ccgcaggaaa gcaacgagcg cgctttccta tttgggggtca 60

agagtggcgc tgatggtgaa ggtaccagca gtgccatcct ccttggcaga caccttctta 120
gtctcaggtg gagctgccat tgccttctta cacttgccgg tggagctcga tgggtgcgtcc 180
tcgacggtag cgcagcactc cgaggagggtg cgcttgccgg agttggcatc agagctcttg 240
ccggactggg tcttcttcgt cccccggga gcttcagegg caagtgtcct ctgttctgcg 300
gcagctacta cttcccggta gatcttgtcg gcacaagtaa gagcatcctt cttgtcgcca 360
gggacaatga tgacacttat gacgccgagc attttcagta cgttgtacgc atagtgagag 420
gctgctatga ac 432

<210> 7367
<211> 439
<212> DNA
<213> Triticum aestivum
<223> Clone ID: LIB104-023-Q1-E1-D11
<400> 7367

gggtccacgg cgtagcttaa aggggttaaa gcgaacaaag gacgcagaga gtttttatac 60
tggttcggcc cctcgcggtg aaggtaaagg cctaataccag ttgttgtgga attactaggg 120
tttcgatgac cagggagaga atccgctatg cctggctctc gagttgttgt ttgttgtccc 180
taaaccgccg tcgggtcgtc cttttatata cacaggttga tgcccgacgg tttacagaat 240
cccgaggccg gtcataaac gtgtccggtc cggtttctac ctttcctatc ttacaacaca 300
agttacatat gatatggcgg tttaggtcta catgccataa cccgcctcta ggccctgagc 360
cttcgtaaag cgccacactc cttgtcctca tgggcttcaa atataaataa ct cattatgg 420
ggataaccgg gactctcct 439

<210> 7368
<211> 375
<212> DNA
<213> Triticum aestivum
<223> Clone ID: LIB104-023-Q1-E1-D2
<400> 7368

cgggggccacg ggcgggacga actttgttgc cgtccccaat acagcaagag ggcacatagg 60
cggcgcatta aatacgtttg tcttacagtg tcaggtgatc aacttgtaca ctgtagatac 120

tttccacctc ctgtgtgccca ctgtggcgac cgctttgaca tataaaagga ggcccagggc 180
gtactgtgga aggattcgga ctttttggac tgggcatgca tggcagctag ttcaagagct 240
caagaacacc aaatatacac agacaagcag gactagggta ttacacatcg tttgcggccc 300
gaacctgggt aaaaattccc ttgcgttact cgtctagacc tgctctttgc gcagcccttc 360
acccccgcca actgt 375

<210> 7369
<211> 452
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-023-Q1-E1-D7

<400> 7369

catcgacaac gcaaagaagc ataatgctgg gacaagcaaa gctgctcata gcaccacatc 60
gctcaataca aagaggcttg atgatgatac agagaatctt gctcatgagc gtgtgccgtc 120
agacctgaag aagagcatta tgcaggctag aacggacaag aagctcacac aggcacagct 180
tgcacagctg atcaatgaga agccacaagt catccaggag tacgagtcag gcaaggctat 240
cccaaacc aa cagatcatcg gcaagctgga aagggtcttt ggcacaaagc tgcgaggcaa 300
gaagtgaagc tgcgtgtgca tctgacagga gtcgaggctt tcaagagagc ttggctgggc 360
aagtttaccg ctaaataaag cttgtctact aaatcatgcg acttaagaaa accccggagt 420
ttgggtatttc gctcagggtt ggggtgaatgt aa 452

<210> 7370
<211> 347
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-023-Q1-E1-D8

<400> 7370

tgatcacgtt tctgggacaa acttcgcgtg atcactgcac gacttcgact catttgaaag 60
acgtgtgaag agttaagtga caatctggca catgatcgta tctcgtcgga cctaacttag 120
aacattacgc aagctagatc cgtcaatcag ctcatatacg tacatcttgc acatctcatc 180
agtgtaagc aactgggtcat ctattagtag aagtcaggca atgctttctt atcacgaata 240

catcattggt atcctcgaac atggatcatg gtaccgtacc gtcacgtctt actcgaagct 300
gcgtgtgtat ctgacaagag tctacgattt caatacagct tggctgg 347

<210> 7371
<211> 394
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-023-Q1-E1-D9

<400> 7371

tgcgcagtat aagagaggct aacaatggtg gaagggtgaa aggggtgctta taatccatgg 60
actcaacatt aatcaaaaaga actcatacac ttgttgcgaa aatttagaag tcatcaaaaa 120
tcaaaacact acacgcatgc tcttaggggg atagattggt aggaaaagac catggctcgt 180
ccccgactgc cactcataag gaagacaaac aataaataaa attgtgctcc aacttcatca 240
caaagcgggt caccatttgt gcatgctacg ggaatcacia acttcaacac aagcattctt 300
taaattcata atcaccccaa ctaccattgc ttgatacta tcacctccat atctcaaaac 360
aattatcatg catcaaactt atcttagtat tcaa 394

<210> 7372
<211> 434
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-023-Q1-E1-E10

<400> 7372

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gtataatcac cgcaaaacta tatatactga ccgtaaagag cgtattgtta catacgttga 120
ccgccagtgt attttttctca tttcaaatta agccatatta accggaaagg acgcagtatg 180
gactagtact agtactgctt tgatgtgtcc catcaactcg ccgaacgagg agaagcttgc 240
ttactacgcc tctccctcgc ccacgtgcgc ggtgggtcgc aggacgagga gatgggtttg 300
agtacagcgc cctctccctc tccctcgccc tcacagtggga cgtgcagcag ttcaattggt 360
gtcagattgc cagaagcata atgtgtactg tagtatcatc attgttggac cttctgaaga 420
ggcgacgagc caag 434

<210> 7373
 <211> 453
 <212> DNA
 <213> Triticum aestivum

 <223> unsure at all n locations
 <223> Clone ID: LIB104-023-Q1-E1-E11

 <400> 7373

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 tattccctta agaacgctag ctttcgactt caccagctct gaggtacaca tccggctgac 120
 ccagcagtaa caatcgcaga gggctccctt tatgccctag ccgaattaac gggaaacgtan 180
 ggcataaata caagagccag gcaacctagc ttggccaaaa ctttaagtc atcgatgcat 240
 ataatggtga ataacgggta catgccgaat gataacacat gtgttgggca taaagcccgt 300
 atgaataagc ttctgttaaa gaatccccca ggtataatga gcgcggatag cgcgtcagtt 360
 gcgtgcaaac aaggcatgaa tgggctccta aaggctgtga gagaaaaaga aaaggagaag 420
 gagaaaaata taagacagat agtgtataaa aat 453

<210> 7374
 <211> 430
 <212> DNA
 <213> Triticum aestivum

 <223> unsure at all n locations
 <223> Clone ID: LIB104-023-Q1-E1-E12

 <400> 7374

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 cccaaaattt gaatttttcc accaattgca aaacctggaa gaataaaaaa aaagggtcaa 120
 caaccaaag gaacctaacc aatcataatt gccctaagaa caatggtctc aggttcaagt 180
 caagaggaag gccttgaatg cccatttgct gtgaatcctt caacatcgta nagaacgttc 240
 ttatgtcntg tgggtgtggtc acacaatgtg caagaactgc atcttaagtc ttcagtgggc 300
 tgttgtcaag ttcncaacct ttectatcca gctgcctctc tttgtctcgt gtccttgggtg 360
 caacctatta tctttccggc tgggtgtacaa gggcaacctc aagttcccac gtaagaacta 420
 ctttctgctg 430

<210> 7375
 <211> 412
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-023-Q1-E1-E2

<400> 7375

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 tatgaacttt tgagaaccgt gccacgggtt atgtggcaga aggaatttg ttaatatctg 120
 gttgtagaga acttggcact tgacttaatt aaaatgcac aatcgctgt gtagctgtga 180
 tgggtctctt tcggcggagt ccgggaagtg aacatgtttt gggttatgtt tgaacgtaag 240
 tagtttcaag atcacttctt gatctcttcc agcttcaaga ccgttgctga gcttctcatc 300
 ttactcttac ttgcgtatgt tagccaccat atgtgcttag cacttgctgc aactccacct 360
 cattacctta tcctaaccat aagcttaaat agtcctgac tcgcgggttt tg 412

<210> 7376
 <211> 402
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-023-Q1-E1-E3

<400> 7376

ggcgtaacgc tcaaacacat gtccattaac gatgtgtggg tcaatgaacc caacatcatg 60
 gatgttcctt actctgcatt ccttaatctt cattctgcat gtataatata ggacacaaca 120
 atatagttag gacatatata tagtgcaggc aatatgaacg agatgggata gaaattaata 180
 aatcacttac agaacgtagc aactgatgat agatttatcg agctcgcgca gattgaaaag 240
 ctggaacaat tcactcagtt caatttgtag atagtaatgt ttgaagtgat gctcatgtct 300
 aacttcogca taaatatatt ctttggcgta tttatttttt atgtaaccct tgtaccatct 360
 cagcagacct ttcatttggt gaggtagatc cttttcctgc gc 402

<210> 7377
 <211> 452
 <212> DNA
 <213> Triticum aestivum

<223> unsure at all n locations
<223> Clone ID: LIB104-023-Q1-E1-E5

<400> 7377

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ctggacttga tcccggatgg aattgaagcg tctctcttga tgtgcttggt tctcttttga 120
aatctggatt cctttgccaa ggaaattgca ccagtattgt cacaaaagat tttcattgga 180
cccgatgcac taggtatgac acctagatcg gatatgaact ccttcacca gactccttca 240
tttgetgctt ccgaagcagc tatgtactcc gcttaacatg tagataccgc caccagcctt 300
tgtttagaaa tgcaacaact aacagctcca ccattcaata taaacatgta tccggtttgc 360
gatttagaat cgccccggtc agtgtcaaag cttgcatcga cgtaaccatt tacgatgagc 420
tctgtngtca cttcataaac gaagaacata tc 452

<210> 7378
<211> 105
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-023-Q1-E1-E7

<400> 7378

cgggtttaaa ctaatcatat cgatatgtgt catgcaacgc tataagtcga taaagtgaac 60
ttgatgtcgg atggagctta tgcgtcacgc atgtagtgcg tgggt 105

<210> 7379
<211> 456
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-023-Q1-E1-E8

<400> 7379

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ggccaaggac ttcagcaatg ccagctcatc gcgatcgccg acacggcgag tgcgcttggt 120
agagcccgag gtgcccgcga gagcttgttt gagggcttcg tggcgcgccg agatatctct 180
gttgcggtcg cctctacgag gggggacctc tctactgctt acgtggcctt ggtctttgct 240
gcctgggttat atgtccaccc gaaactcctc ctaccggtca tggcggaatg acttgacaag 300

aaagaccagt tttgtgggtg atgaggagag gaactgtgaa gtgatttttg agtgggtagt 360
 ttttatagcc tgggtgctaag tgtgaacaca tattagtttg atctgtgtga acgtatttgc 420
 aattacttat tgcgttgtaa tctgcagtgt gacgag 456

<210> 7380
 <211> 439
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: LIB104-023-Q1-E1-F10

 <400> 7380

ggggccacat cgacatcgcc aagaagcata atgctgggac aaacaaagct gctcatagca 60
 ccacatcgct caatacaaag aggcttgatg atgatacaga gaatcttgct catgagcgtg 120
 tgcgctcaga cctgaagaag agcattatgc aggctagaac ggacaagaag ctacacacagg 180
 cacagcttgc acagctgata aatgagaagc cacaagtcac ccaggagtac gagtcaggca 240
 aggctatccc aaaccaacag atcatcgcca agctggaaag ggctcttggc acaaagctgc 300
 gaggaagaa gtgaagctgc gtgtgcatct gacaggagtc gaggttttca agagagcttg 360
 gctgggcaag tttaccgcta aataaagctt gtctactaaa tcatgcgact taagaaaacc 420
 cggagtttgg tatttcgct 439

<210> 7381
 <211> 438
 <212> DNA
 <213> Triticum aestivum

 <223> unsure at all n locations
 <223> Clone ID: LIB104-023-Q1-E1-F11

 <400> 7381

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 cgagtacggg taccgggtcc ccttcggtgg catacacgct ttcattggca agatcgggtga 120
 gcctgggcct gagccggaca tctgcaccga cctcgtcgag acggctcagc gtgcaagatc 180
 taccaggtt aaaccggcca tgaagcgtgc cttcattgga gtcattccacg gaggagagcg 240
 tgacgacgaa tcagaacact gtagcgagac catcgcttat tccggcgacg aatccttgac 300

cggagagacc gaatcgctat accagttgca agacgaccag attaggggct gttctgatgg 360
 cgacagtatt ccggaccccc cgggccaggt caaccggggt ggaatattca tggccggcac 420
 acatgcggcg aatcactc 438

<210> 7382
 <211> 368
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-023-Q1-E1-F12
 <400> 7382

cccaattaac aaactcccc aaaggcttcc cccaagcccc ggctgaaaaa attaacaaca 60
 ttttccacaa agggaaatga attcccacca taaaccatta ccggtaaaca tacaggttaa 120
 aacccggtac caaagggtcca agcagcaagc catcaccccc ccatgagcca aggaccctcc 180
 ttttccttcc ttattaatct agagatccct tttttgttta acctaategg acatgaagct 240
 tcctcaagct tgtttttcat tggctcttgc taaggtttgg tcaagttgtc agtccaaca 300
 tgtggtagct atgaacttat gatgatgtat gtagtacagc atggctgcat gagttttctt 360
 attcttgc 368

<210> 7383
 <211> 457
 <212> DNA
 <213> Triticum aestivum
 <223> unsure at all n locations
 <223> Clone ID: LIB104-023-Q1-E1-F2
 <400> 7383

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 gaccattaga cgtgagcatg ccacagttgc gtgattaggg aagacttttg ctctgtcaca 180
 caaagcacat gtggctaagc tgttccgatt ttctagcatg tggagcagat aaaactgaag 240
 tgccagggtta gtggtgatgg tttttaaaca caacgacagt gttgcatttg ctggtcaaaa 300
 cggacagacg aattancatg aaacagatta aacttgctta gtgaagtgat agctaagtgt 360
 aacaaacttg ggtcttcgct ggccgccaat gctccacgtc ngcacttgac anactggttc 420

cgccagccaa cgttgctcca cggcatgcat gcacatg

457

<210> 7384

<211> 281

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-023-Q1-E1-F3

<400> 7384

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cacaaggacg acgacggcca cggcagcagc agcagcgaca gcgacagcga ctgagccagc 120

tccggccgcg tgcagtgcac gggagatgaa cgcgtgggtt aatttgagc gtgtggtagc 180

atatgtatgt aatgcttgac atgtctcatg gatcttgtaa tgtaataacc ggctgcactg 240

catggtgctt gtaataataa cgtaagaa tttccattgg t 281

<210> 7385

<211> 221

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-023-Q1-E1-F4

<400> 7385

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tcaccttccct ctgccacttg ctcacgtctt tcctcacgtg cagcttcgtc tgggtccaacg 120

ctgcatcctt catcaacagg tccccccaaa agttccctaa ggtcatttta tctaaaaccc 180

aatccctggt aaaaccccag ttccctaagaa aaaaatccat t 221

<210> 7386

<211> 447

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-023-Q1-E1-F5

<400> 7386

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ggtgacggct tcatcgactt cagcgagttc atctccttct gcaacgccaa cccggggctc 120

atgaaggacg tcgccaaggt cttctgaatc agttcatttc acctcagccg tccgatccag 180
gagccgatcc atctacgtac ggcttcgtat atcaatttca tgcaactacc tactccggtc 240
ccgatccagc cccagcttca cctgaggccg gccctaattt tgtttgatca atttttttgc 300
tactagtagt aactagtgat gatcactggt gcaccattta tttattttat atcgtcacaa 360
ctttccagtg tttcttttct ttctctacct ttttgtegat cgtcggctcc agctcgatcg 420
aacgatccat gctgctaatt gtttgtg 447

<210> 7387
<211> 451
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-023-Q1-E1-F6

<400> 7387

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gaatctagac accaccgcca tctaacggga gaggggacgg agcgttggag gaaccggatg 180
acgacgagtt tcatcgtgat gaccgcagct ctcttctatg tgatggtact ttatatgac 240
gatatctact tgtaatgtga agacaaactc gcggtctcga gacttgtaat ataattgttct 300
atcattgttc ggtcttttca attcggagac taatatgatg acttgatttc gaagactaaa 360
atcatgaatt gtactcacag actaatcatc tactgtactc catgaatcca ttgtttaagt 420
gtgctgtcca tattttgtcc aatatacatt t 451

<210> 7388
<211> 280
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-023-Q1-E1-F9

<400> 7388

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tgcacgtct ggctgctatg ttctctggc tgtttgggag gcaccaacct tccccatttc 180

ctcctggccc ttttctggg gacaacctgg cgaaccttcc ctaaccctg gccagtggt 240
cccgaactaa gttctgttcg acactcgcgc cccgactagt 280

<210> 7389
<211> 383
<212> DNA
<213> Triticum aestivum

<223> unsure at all n locations
<223> Clone ID: LIB104-023-Q1-E1-G1

<400> 7389

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cgcgctgag gagcgctct cctcgggagg accggaangg agcgagtcaa actcatatcc 120
acttcagagc aagggtgggtc tacaactgct aatttaaagg gattcgattg tccctcgtct 180
gagcataagc atgataaagt gcagcaactg acttggttta ttgttttga aatcgcaacc 240
ggtgctctcc tgcttgttt tgtgattact ggtgtcgtta ctgcctacag aagctgcaat 300
ctaaagcctt ctatacgaat atcatcatgg agcagatcaa aaagttggag cgccgagata 360
acagtactga ttggccaata acg 383

<210> 7390
<211> 434
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-023-Q1-E1-G11

<400> 7390

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agtcaggcaa tcattacaac atcccatgta atatataata aaagggggag ataacatagt 180
tggtttacac tggccagtc acatcagagt acataaataa catccatcaa acaaacactc 240
atggccctac tacggcgcca aaatagaaaa gaaccaaca tgcgacaagg tcctgaatcg 300
ataaccccaa ctaggcacca ctactgatca tccggaaagg acacgtagta tcgtgagag 360
tcctcgtcga actcccactt gagctcgtaa tcgtcaactg gagcagaaac acctggacct 420

gcacctggag ttgt

434

<210> 7391
 <211> 460
 <212> DNA
 <213> Triticum aestivum

 <223> unsure at all n locations
 <223> Clone ID: LIB104-023-Q1-E1-G3

 <400> 7391

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 aaggagattt caaggttgcg gacctcctgg acaaggttgt ttcctgcggg gaggccggta 180
 gccgtgcttg tgggtggctc cctgtgggct gcaatttgca ccgtgagtcc gtcggtccta 240
 gctccagctg caccgtggca tcacggcgct ggagcggcgc ggctcaagat ggcaatgggg 300
 ccccgaaacc cgcgtccccg cgggttttta ccctattang ggacggggat gggcgtcttt 360
 ttaaccccat ggggctgctg ctgggtaaata tataaaacc aacatgtttc acgggtttta 420
 acccgtttga gcaatacccg aaccgaaac ccgccatccc 460

<210> 7392
 <211> 449
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: LIB104-023-Q1-E1-G4

 <400> 7392

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 tgctgctgtc agcagtgtc tctaaataga cactgcaatt atcttatata tcattactgt 120
 tgtcagcaat gctctctaaa tagacactgc aattatcatg tacatcattg ctgctgcaat 180
 aaaccactaa gaattattca atatctagcc tagcgccttc gttatcatca accgaggggt 240
 gaggcggagt taaaaatct gaatgagaaa ccaagggatt gtccaagtca gcgacatctt 300
 tgttatcttc agagctgtta gaagcagctg agatggcgtc acccgattct gaatgtgttc 360
 tgtccacata tgcttcgggt aaggagctct cggccacatc agcatcgccg ttatgccgag 420
 caatcagatc ttctcttctg acaaaatta 449

<210> 7393
 <211> 242
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: LIB104-023-Q1-E1-G5

 <400> 7393

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tggaggatta tcgtaccga tttaaggcga gtccggccga gtcattgcc tgagaacgag   120
atttgacggt tgcaggcctc ctagagaaag ttgtctcttg cgtggaggac agtagccgtc   180
cttgtggagt gcctcctgtg cgctggaagt tacaccgtca ctgcgtcggc actacactcc   240
aa                                                                    242
  
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<210> 7394
 <211> 418
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: LIB104-023-Q1-E1-G6

 <400> 7394

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ggtgcgctga cgcgccccca cgaaaaagaa gacaaagtag tcgccggaag atccggcccc   120
actgctcaac agtcggccccg aatctcgggg gctacacca gcggtgctgc ttacgcgcgc   180
ccgcgaacac taagacttag tcatcatcgg aagatccggc cacactgtca gcagtcgacg   240
gttaacgcgg aggcacaacc tctcaggtac actccaacgg attgtccaag tcagcgacat   300
cgttgtcacc gtcagatctg ttagaagcag ctgacatggc gtcacccgat tctgaatgtg   360
ttctgtccac atatgcctcg ggtaaggagc tctcgccac atcagcatcg cgttatg     418
  
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<210> 7395
 <211> 392
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: LIB104-023-Q1-E1-G8

 <400> 7395

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gagtatgaca accccaaggc cagtgcgcc aagaagaaac aaataggcga gggttaggag 120
aatggcgagg atgctgagga agaccaggat gatcaggagg gtggaggacg tgacgacgat 180
gatgatgacg acgactacga cgatcacaat gacgacgacg actatgatga cgatgatgtc 240
gctgctgaag acgattgata tggactacaa cacgacgatg atgacgatta cgatgatgag 300
gacgatgatg acttgctcca gccccgatt aagaggatga agtgaagccc ttcgactcgg 360
ctgctttagt caccatgcga tcagatgtgc ct 392

<210> 7396
<211> 341
<212> DNA
<213> Triticum aestivum
<223> Clone ID: LIB104-023-Q1-E1-G9
<400> 7396

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at ttgatact tgataattgt tttgagatat ggaggtagtg atattaaagt catgctagtt 120
gggtgattat gaattgaaag aatgcttgcg ttgaagttag catgtcccat agcatgcacg 180
tatggttaaa gttgtgtaac aaatttgaaa catgaaatgt acctggcttg tgcacctta 240
tcagtggctg tcggggacta acgattgtct tttcgtacca agattttcct ctaggagcat 300
gctcgtagta cttgactttt gatgacatct aaacttctgt a 341

<210> 7397
<211> 464
<212> DNA
<213> Triticum aestivum
<223> Clone ID: LIB104-023-Q1-E1-H6
<400> 7397

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ccatgacacg tggacggtga gtgtaatgga aaggaaaaga ggggaagagg ggaatcaccg 120
aaggtgatgg agatggagac ggggaagaca tcgatgataa aggtggagac gaggaaggca 180
tctgtgatga aggtggagaa ttggtgttgg tgtcacccca gaagctcaaa gattatttga 240

tgcattgtcg aagacgcttc cagttcattg ggacaagacc gacattgttg taatgaagga 300
 ggttcgtgta tgcagtcctt acctgcctga aaatgtcagc ggcggaacat cagctgctaa 360
 tgaacggggtt aagaaagtgc tggactttga gaggaaaaga caacatgtgc gtgtacctgg 420
 ccaattctaa ctgttctgac ttgacaattt tcacctcaac tcct 464

<210> 7398
 <211> 452
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-023-Q1-E1-H7
 <400> 7398

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 gtaaccaaca tgcactcaat ctctataggt gcaatcaaaa caatgaagca aaaaaacaga 180
 ggaaaaatag agcctatttc tctaggcctc tttaatcttt gtgggccttc gacaatcaac 240
 gcaatgcat ggcccaacta gagcttggtt tcattttggg cccaataact acattttttt 300
 ctcttgact tgggtgtgtc tgacgaaact gaaagtgtca aaaactaaca cctatagaga 360
 ttcagagacg aagatagaga catagttaa gcaacacaga gagcacatga tccacaaatt 420
 gagcaacaca aagagcacat gattcactaa cc 452

<210> 7399
 <211> 403
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-023-Q1-E1-H8
 <400> 7399

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 tcgggtgagg aagacaatcg tcgatgtggc agccgatgcc accaaagatg accagcagga 180
 agctgagact gtgctggcaa gtgcagttca agaaacaagc tagtctacct tacctttcaa 240
 aataagagtg caaaatagtg catcatggta atatgcagtc cccgtctcag gatcaacgaa 300

atatgtagct aggcagaaat agcatgtacg agtaaagagt aacttgcaac atgtcatgct 360
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<210> 7400
 <211> 462
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-023-Q1-E1-H9
 <400> 7400

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 cgacaagacg gtgatgagat gccgctgaga agatcgatgt acagcgggtg aggccatcat 240
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<210> 7401
 <211> 445
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-024-Q1-E1-A11
 <400> 7401

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 gtgaatttga gaaatgcttg tgttgaagtt tgcaagtccc gtagcatgca cgtatggtta 120
 aagttgtgta acaaattaga aacaagaagt gtacctggct tgtgcaccct tatgagtggc 180
 ggtcggggac gagcgatggt cttttcctac caatctatcc cctaagagca tgcgtgtagt 240
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 ttgagtcctat ggattatacg cactctcatc ttttcgcctt tgctagcctc ttcgggtaccg 360
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tgatacgata cgctctacca cacat

445

<210> 7402
<211> 456
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-024-Q1-E1-A12

<400> 7402

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agtgaacccg acgcactacc gggagccaag gttttacacc aagggtgttta aggaatgccca 180
ctcctatgac caagatggga attcctttga gctttctctg gtaactccca agtgcattgg 240
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gtgcacagaa gacaaaggct ttcagagatt cctggacaac gtgcagtaca aatccactgg 360
aatcctgcgt tatgagcgcg tgtttgggga gggttatgtc agcaccgggtg gattcgagac 420
cacaaaagaa tttgtggaca agctggatct gaaagc 456

<210> 7403
<211> 335
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-024-Q1-E1-A2

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acacgtattg tattgttgcc attgaggata aaaagatggg gtttatatca tattgcacga 180
gtttatccct ctacatcatg tcatcttgct taaggcgtta ctctgttctt atgaacttaa 240
tactctagat gcatgctgga tagcggctga tgtgtggagt aatagtagta gatgcaggca 300
ggagtcggtc tacttgtggt gaagtttgtg attcc 335

<210> 7404
<211> 309

<212> DNA
 <213> Triticum aestivum
 <223> unsure at all n locations
 <223> Clone ID: LIB104-024-Q1-E1-A4

<400> 7404

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aggaacaaat tcaaaacggt ttacttcaac cttgcggcct gacgctgcaa gatcacttgc  180
gccttggtac aaacaaaacc ggaataacac acgccctctt tcttctcatg tataccgtag  240
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aactaaata                                     309
  
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<210> 7405
 <211> 423
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-024-Q1-E1-A5

<400> 7405

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gtgccgaggg ttacacctct tcagcacttc gaatgttaac gttgtcatgt atctattcgg  120
tcgtgggtcat cgaggggtgat ttctctctta accacttccc aagtctcaga aagtaacga  180
tgctatcttt gtcgtcatcg accaattctc gaaggttgct cactttctgc cagtcaagga  240
gactatcact gctagtcaat tagcacactt gtatatctcc agaattgtgt cactccacgg  300
tattccgaag gagatcagtt cagaccgtgg aagtattttc actccgaagt tctgggatag  360
tttccaagag gcaatgggaa ctcatattac ctggagcact gcttatcatc cccaatccca  420
agc                                             423
  
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<210> 7406
 <211> 142
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-024-Q1-E1-A6

<400> 7406

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acatatccaa agcagcacac aa 142

<210> 7407

<211> 423

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-024-Q1-E1-A7

<400> 7407

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tggtggtgcg agagcctccc cagcgcgctc accaccctcg agatcgaga ctctggtagc 180
gcacacaacag caaccgcaca gagccgcagt ggacatcacg gtctgtcgc cagcctagg 240
gtccgcagcg acagggtcgg cggcaaatct aatccatctc cactggtttc agcagtaagc 300
tgacgtctca tacatcaccg cgttcctctc ccatcttgct ccttgacaaa ttagattggt 360
ctaccaattt ttttttggtg attgtggacg accaagataa ggataagaga aagtaatcat 420
aaa 423

<210> 7408

<211> 455

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-024-Q1-E1-A8

<400> 7408

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cttggtttt ctccatctt cgttggtgta tcgggacgat aaacaagtgg tctcacaagt 180
cagcatggat gacgattggg tggaaacgaa catagaattt gatggacatg atgaaagcgt 240
ctctggcaat gctgatggca tacttaggcg tgtggaattg catccagcat agagtacggt 300

tatgggtgat gtaaactcat caatgatgag cagctgggta acaaaggact cgaactcttc 360
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 catcgtgaaa gcagccgcaa gtgggactga tgttg 455

<210> 7409
 <211> 417
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-024-Q1-E1-B1
 <400> 7409

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 tcttcatatc tacagtccac gaaaaagcca caaaaaaatt tagggtagt tcatcatatc 180
 cgaaccaatc tgagcctttg cataatcttt ttaaggtttt tgctttgttg aatttgcggg 240
 tgcacgtcg gtctagtgtc tgggtcttaga gtctagtctt ttagagtctc gagttctggg 300
 cataagttgt cagcgcgcg ccacaccatc atcatcgccc ctgccatcta ccaccaccgc 360
 tcatccgcca ccgtccgaa ttcgtatcca tataccacca ccaatccgtg tccatat 417

<210> 7410
 <211> 442
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-024-Q1-E1-B10
 <400> 7410

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 tggggccggg agtttaccaa tggtttctca tggatgcctc cctcatctta atattgaggt 180
 ggttgagttg gaccccatga tggaggaggt agcaacgaaa tattttggct tttcaatgga 240
 tgagcaattg aaggtgcatt tgggggatgg aatcaaattc attgaagaaa atgcccattc 300
 tgaaccaa at ggcaaagaca gtgacgcagt tagaattctt attgttgatg ttgaatcatc 360
 tgatctaagt tctgggttgt cttgcccccc agcaaacttt gtcgaagatg ctttcttat 420

gtcagcaaaa aagttccttt ca

442

<210> 7411
<211> 448
<212> DNA
<213> Triticum aestivum

<223> unsure at all n locations
<223> Clone ID: LIB104-024-Q1-E1-B12

<400> 7411

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agatgctgag ggattgccng agcagttcnt atgcagggaa aggcattggct atgcgagatg 120
tcccgatgac acaggccaac atatgaagca gagcgccaaa gggtcactga gtgtggggga 180
tacattgaag atggctacct caacggagta ttgtcgggta ctctgtctct aggggattgg 240
gacatgaaaa tgcctcaagg ctgcagtc cctctgatcg ccgagccaga gttccagcag 300
accgtcctca cggaggatga cgagttcctc atcataggct gcgacgggat atgggacgtc 360
atgaccagcc agcaggcggg gaccctggc cggaaggggc tccgacggca cgatgacccc 420
gagaggtgcg cgaggagct cgccatgg 448

<210> 7412
<211> 333
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-024-Q1-E1-B2

<400> 7412

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cggcgctaaa acctccgcgc aaaaaatcgc cttcggcaac ctggtccgct tcatctccaa 120
aaaggtgtgg gccgcctgga cttgaccggc atccccgcgc gccgcggcta taacttctcg 180
taaattaggg agaccagca atggagacta ccaaagggt caggtcaggc caggtcaggc 240
ccgtgaaacc agtagtagta gtagtaccag ttggttttgt ccagcaagc aagcaagcaa 300
gcaagagcat ccgtctctc tatgccccct ttg 333

<210> 7413
<211> 211

<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-024-Q1-E1-B4

<400> 7413

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cactttctgat gcggtgaaga ttcctttctaa gctgcacgat caagcttgct acactaggat 120
aactattgat aatctgactg atcatccctt gttcaagaaa gggttttaaa ctgtagtaat 180
tccgttaaga tcaacaccac atgcttcaaa g 211

<210> 7414
<211> 451
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-024-Q1-E1-B5

<400> 7414

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aagagtacgt gaacggccaa ctgaagaaca tgtatggtga cgccttcata tgaggcaaca 120
tcgtcctata catcagcacg tcgaagcggc ccctcaccga ctgagcatac gccgagtggg 180
gcattcacat catcatgatg taatttcaag gtcgttaacc cgatgattgg ttgtgatctg 240
actggtgcta ccttttgcaa tcttgtacgt gttgtctgct gtagtgccctg ctgacagaga 300
cttatctgga atcatttcga tttgatgtta tctgcgtttt tagcttggag atgtttgtgg 360
ctaagattct gcgatcagga tagatagtag atttgtgtgt ccatagtcct gtgctgcata 420
taacagacat tacgtgtctt aaggacacc c 451

<210> 7415
<211> 389
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-024-Q1-E1-B6

<400> 7415

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ccgtatctac tgagggtcaag tagtgacatg tctcgatact ccggaacgag ttgcaccatc 120

gtcctcgct gcatcactgc taagccggct ctcacctgt gatcatatgc gaattacacc 180
gtccacatca tcatgatgta atttcaccgt cgtaaagcc atgactggat gatattctgac 240
tgcgttcacc cttcttgcaa tcatgtacct cttgtctgct gtagtgctg ctgacatcga 300
cgtacctcga atcacttcca cttgatgtgg acatcctttt tatcttggag atgtttgtcg 360
cccagattct gccattatga cagacagga 389

<210> 7416
<211> 397
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-024-Q1-E1-B7

<400> 7416

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tgggtgtact atatatatgt ttgccaaata atgtgtgcac cgtgtgcaac tatggaacag 180
cgaagtggta atcattttgt gagctttgga acagtgaagt gacacatatt tgcctaaaa 240
aaaaaaaaaca aaaaaaaaaa taaaaaagaa taatcaacaa aaaaacaaac aaaaaatcaa 300
aaaaaatgga accacttcta gatgatcgac ctcgacgtac acatctagga aacttcaagg 360
ctctccaatt ctgcatcaa gacacattgc ggacccc 397

<210> 7417
<211> 424
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-024-Q1-E1-B8

<400> 7417

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ccatcgtgcg tggcaaaaat ttatacatcg gcttggctca ttcccgaac ccgctcgcg 180
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gcgcgtggat gtccctcttg ttctcatcct cacacatgtg gggaaagaac ctcccttata 300

aagagatcca actccctcta aacaagcaat gtgggactaa acttttagttc cacctcttgc 360
 cttgtacgaa tgggttgtgt gggcctcagg atttattagg aatttttgaa actgctattg 420
 ggct 424

<210> 7418
 <211> 431
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-024-Q1-E1-C1
 <400> 7418

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 ttcagcttca gtgatttctc aaacaagccc attaagcaga actccaacaa gaagaatccc 180
 aacaacctcc cccagaataa aggccagtct aataacaatc atgaagcgat gagcaatgac 240
 tggctggaaa atgggtcaatg ccctcttgca aagtcata tagcaattgg tggagtcgtg 300
 cctcttgctg caaaactgct ggcgccccca gctggtatga aactgacgtg ccctcctgca 360
 attgttgctg cccgtgcagc aatatcccg cgcggtttg caaaagggct tcgccctcag 420
 ccctaccga c 431

<210> 7419
 <211> 453
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-024-Q1-E1-C11
 <400> 7419

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 actggaatga aaaagggtgga agaatgcccc accggcattt gtttcaggca gggagaaaaa 180
 caatgacaga gtatatacgt tcgtcaaaaat gaaatagggg aagtatatctt acttacagat 240
 tgttcagctc aaacatgccca attatatggc catacacctc aagggaacaa actagagcaa 300
 gttaaggtaa ctcgaatgac aacgataact actcattgta tgaaagtttg aaacaagtct 360

ggtaactgcc aaaaaaggat acatggtgca cactcagcat cgaagatcgc atccttgaga 420
agcttttagtg actgcaaata cagaagccat gat 453

<210> 7420
<211> 307
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-024-Q1-E1-C2

<400> 7420

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atttgcttga tgttatatat aataatgctt tgcattctta ttttttcaat caaatgtcaa 120
ggatagcctt taccatgctt attttgcaag tatacatggt gctgtttcaa aacagaaagt 180
ttaccgctgt tgtaaaaatt tcttagaaaa gtcagagagt gatataatgt tgaattcttt 240
tgaataatga gctctgataa atcttttata gcatagtatt tttcttataa tttttggagt 300
taaggaa 307

<210> 7421
<211> 304
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-024-Q1-E1-C3

<400> 7421

aatatgatat gagcttcact tatatcgctt gagctaaata tttttgctct agtgcttcac 60
ttatatcttt tataggcggg ggattaattt tgaagaacct gttcatctat catagtccac 120
ctatatcatt ttgagactcc tttagaacat tatgctattt gctatcggtt taaattcctc 180
ctacaatgat gatcccccaa gttgggtata attgatacta tcataagacg ttaattggat 240
gttaccatca acctgatact tgatcattgt tttgatataa ggatgtattg atattaggat 300
cttg 304

<210> 7422
<211> 146
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-024-Q1-E1-C4

<400> 7422

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cggcttcaat cccccgggtc gggtccttgg cctgggtcac acccttacca acaacattga 120
cgggcgctcc aaaaactccg gcaacg 146

<210> 7423

<211> 425

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-024-Q1-E1-C5

<400> 7423

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gcatattcca gcatataacc ttgagaaatt cctcgatatt gatctagaag aaatttatat 120
gtattgtgcg gtgaattgca ttgaaaactt atattgccaa ttacataaag aagaggaaac 180
aaatagaagt tgaagagaat actaacgaaa gggaagagac ttcccaatat tctcctatta 240
tttcttatga tgaatcaggt aacgaggagg agccttatat tcaaccaatc tcattaataa 300
ggagctccaa aaagaggatt gaaccacac atgatgtgaa gaagaaaaag aaaagatgga 360
gaaggaaagg tagaaaggta tctctcccaa atgatgttgc tcctattact cattgtgatg 420
atgat 425

<210> 7424

<211> 443

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-024-Q1-E1-C6

<400> 7424

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gtgtttatct gaaactgaca atgcaaata cactaaagat aagaccagc gactccatat 120
gccagctgga gcgttggttg acattagtaa cttcatgggc acacattctg gaaatattga 180
ccatgctgtt aatgagaaga gaagaattga gggàagaaac actgcatctt cctttaaacg 240

ccccgctct tccagataaa tcctttgatt tgcacccctg ttagcaggct gtaaactcct 300
 tgatgccatg cttttgctat gcccttgctg tcaatgtgag tttgacactg catgtgtttt 360
 gcatgctggc gacgtttatt tatgcagcag caaggcagtg gatctttttt ttcagacgga 420
 tctaaaatga agatgattgt ctt 443

<210> 7425
 <211> 452
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-024-Q1-E1-C7
 <400> 7425

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 ttatcggctc tcgcagacat ttctaattac agacctagtt gccgtgtacc acacacatct 180
 tgttaagttg aaccgtttct gttctcttgg gtcaacgcaa acagttcatc tgagtgaact 240
 gtatgccgta tatcgcacac acctttgatc tggctgagcg tttctattgt gttgcctaag 300
 aaaaaacagt tcagttagtg aactatatgc catatatcgc agacaccttc atctggctgc 360
 acatttctgt tgtcctacct catcgcaaat aggtcactgg agtgaaccgt atgccaggta 420
 tcgcacacgc aactctatct gaaatgtgtt tg 452

<210> 7426
 <211> 430
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-024-Q1-E1-C8
 <400> 7426

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 gtacgtgggc gacgaggcgc agtccaagcg tggatatctc accctcaagt accccatcga 180
 gcacggcatc gtctccaact gggacgacat ggaaaagatc tggcatcaca ctttctacaa 240
 cgagctccgc gtggcccccg aggagcatcc cgtcctgctc accgaggcgc cctcaaccc 300

caaggccaac cgtgagaaga tgacccagat catgttcgag accttcaaca cccccgcat 360
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gctcgactcc 430

<210> 7427
<211> 437
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-024-Q1-E1-C9

<400> 7427

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aatgaatagg ggaggctttg cagcacgcat gatcttgcca gttctatcgg tggctcttct 120
cgctcttgtc agcgttgga tctatggatg ggcataatag ctctctttat ggtgggattt 180
aatgtgtcac attttcccca catcggtgt gatcattgta catactgtgt cttgctgcct 240
gcgtttaaga ctgttgtaag acagcgaagt gtttgttccc cttcgggcgg gggactgtga 300
aatgaagaag tgaggtaaca aatgagaagc gggatgaagc aaggagcaac tgttgctgta 360
gatgcctgtg acttagtaca tgctagtttt tgttttcctg tcatcacaga tgttggaac 420
caggttgtag ccatcca 437

<210> 7428
<211> 443
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-024-Q1-E1-D10

<400> 7428

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tcgtcgtggc cgctctcatc gtggatcatg ctgccaccct tctcctctcc tcgtgcgacg 180
cccgcaaaga gaaggataag cccaccgctt cccccgtgtc ggggaagtgc ttctcgaggt 240
ttttcccaaca ctgcaccgat cagcgatgca agaagttctg cgtcgagcca ctccccggag 300
ccgtctgcat cgacaaaatc cactgttgc gccctattgc ttagttataa gcgtcgttga 360

agcgatcggg ctaagaaata gtactggtta aagatggcaa catgcaatat ttgtacactt 420
cgacatatat accacctctg ttt 443

<210> 7429
<211> 454
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-024-Q1-E1-D11

<400> 7429

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tgccaaataa aataaattgc atcaaggat ttttgggttt ttggtttaat agatctgaat 120
aaaaatgcaa agaaaaagta gatcgcaagg caaatatatg tgaaagaaga cccggggggcc 180
gtaggtttca ctggtggctt ctctcgagaa aaatagtaaa tagtgggtaa acaaattact 240
attgggcaat tgatagaacc tcaaataatt atgacgatat ccaggcaatg atcattacat 300
aggcatcacg tccaagatta gtagaccgac tcctccgtgc atctactact attactccac 360
acatcgagac gtatcagcat cccaagctt aattcctact tgccctcgag taggtaagtg 420
ataaaaacag aaattttgat gtggagtgat gttc 454

<210> 7430
<211> 309
<212> DNA
<213> Triticum aestivum

<223> unsure at all n locations
<223> Clone ID: LIB104-024-Q1-E1-D2

<400> 7430

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gtcgtgggag accaaggaca gccagctgac gatggtggcg gacgacctga agccgcgggc 180
ggtgctgacg tgcccggaga agaagttgat ccagcangtg gtgttcgcca gctacgggaa 240
cccgtgggg atctgcggca actacacngt gggcaaagtc cacacgcca aggccaagga 300
gattgtgga 309

<210> 7431
 <211> 327
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-024-Q1-E1-D4

<400> 7431

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 gcggccttca tegtgggtcat ggttgcaacc cttctcttct cttcttgcaa cccccgcaag 180
 gaaaaggata agcccacggc ttcccccttg tcgggaaaat gcttctcgag gtttttccca 240
 aactgcacca agcagcaatg cacgaagttc tgcgtccagc actccccggg agccgtctgc 300
 atcgacaaaa ccactgttgc tgcccta 327

<210> 7432
 <211> 415
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-024-Q1-E1-D6

<400> 7432

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 tcatgctgta aaaaactgaa acttttagcgc tcatgagatt tcctgccatt ttttattgga 180
 gagtgtctatt tagttaattc ttttgcagat gattaatata taaattcctc acgtccagaa 240
 atttatttta gaatttttga ggtaccagaa gtttgcgtta gttacagatt actacagact 300
 gttctgtttt tgacaaaattc tgtttttcat gtgttggtta cttattttga tgaatctttg 360
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<210> 7433
 <211> 461
 <212> DNA
 <213> Triticum aestivum

<223> unsure at all n locations
 <223> Clone ID: LIB104-024-Q1-E1-D7

<400> 7433

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tctatgtgct tcacttagat cttttcgtgc acggtgggtg atttgtttta aataaactat 180
tgatctctca tgcttcactt aaattatitt gagagtctta atagcatggt aatttgctta 240
ataatgacat gcttgggtatt caagatttgt gaaactttct tttgagtgtg ttgaatacta 300
agaaaatttg gatgcttgat aattgttttg agatatggag gtaatgatat caaagtcatg 360
ctagtagagt aattgtgaat ttgagaagtg cttgagttaa agtttgcaag tcncgtaaca 420
tgcatgtatg gtaaacgtta tgcaacanat ttgaacatga g 461

<210> 7434

<211> 336

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-024-Q1-E1-D8

<400> 7434

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ctctccctcc gacacataca tcattaccct taaggtagaa ttacttact ccaaatgcat 180
tgctctatct gcatctacac catgaatcta tgacgtgttt caaagacgaa atgagttgcg 240
ggagtattac gaacatttgt atacagcatt aatctacgat ctggttcact gtagtagatta 300
ctgggggaaat ttgtatacca taaatctatg atgtga 336

<210> 7435

<211> 402

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-024-Q1-E1-D9

<400> 7435

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caccgcaact tgttactgca cacacgggta ttgtgaagat gaccacgatc tccatgagca 120

tegacatagt cgcctcacc ttggtcacgg gtgccagtct gctcttctcc tegtgccatc 180
 cgtcatcga tatagatacg cagctcgatt ccccatgtc tgagaaatcc ctcacgaggt 240
 ttttcacaca tttcacgcac catttataca ttacctaccg catccagcca ctcacctgtg 300
 ccatctgcat ctacgtctac cactgttgct gcgctactgc gtacttatac ccctctttga 360
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<210> 7436
 <211> 344
 <212> DNA
 <213> Triticum aestivum

<223> unsure at all n locations
 <223> Clone ID: LIB104-024-Q1-E1-E1

<400> 7436
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 accaaaggaa aagaaaacac gtacacacaa agtgaatata aaagtgttca agactgtgaa 180
 ccgggaggtt cctggtatat ctacgttcat tgtacttagt taagttgatg ttactgttgt 240
 tttttctcgc tgccgccatg ccatgagcan gccaggcang cagcttctca aacttgtgtt 300
 gttgtaactt gtatgatggg agcttaagta cattactttg ttcc 344

<210> 7437
 <211> 427
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-024-Q1-E1-E11

<400> 7437
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 tcccttgctt gctgtttgaa taaaatacca agatctgaaa ttcttaaagtg ttagagagtc 180
 ttcatatggt tgcataatta ttcgactact cattgatctt cacttatatc ttccggagta 240
 gtgtgttatt gctctagtgc ttcacttata tatttttagag catggtggta gttttatttt 300

gaacaaatag atgaactctc atgattcact tagattatctt tgagaatctt aaatagcatg 360
gtaatttgct taaaatccta atatgctagg tattcaagaa taataaaaatt ctcctatgag 420
tgtgttg 427

<210> 7438
<211> 455
<212> DNA
<213> Triticum aestivum
<223> Clone ID: LIB104-024-Q1-E1-E12
<400> 7438

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gagctagagc accacaaagc cctcccctcg cgggccagaa aaaacagagt agtgtggagt 180
gctctgcttg tcggcgaggg ggtatatata ggcatacat tgggtccggt tcgtgggttg 240
aaccgggact aaaggtcacc ctttggttct ggttcaagcc accaaccgga accaatgggtg 300
gtgggccagg agcgaggcac attggtcccg gttcgagcct cgaaccggga ccaaagatgc 360
cagatgaacc gagaccagtg cccacgatg gcccgccag cccctggcc tcacgaaccg 420
ggacctatgg ccccatgggt cccggttctt ggctg 455

<210> 7439
<211> 445
<212> DNA
<213> Triticum aestivum
<223> unsure at all n locations
<223> Clone ID: LIB104-024-Q1-E1-E2
<400> 7439

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aatatgtaga gactgatttc tgcaggactc atcttcttta gacctgaata aatatttctc 120
acaaaccgaa attattttac aaagatctgt gtaacatgaa gctagcaacc caaatgttgt 180
gtggaagtct gaagatgtgg taattcctgc atccgtaaag taatcttctg aagatgtggt 240
aattcctggt aaaccttgct ccaggccaaa agagtgggtg ttgctctcca agaaaaagaa 300
ggcttattga ttgcttgctt aagtgtttga aagatatcaa aacaatcgta tacaagatta 360

atgccagggc ataattggga gtacttagca aactggcagc tgaaacagag gtgttcctt 420
gcntctactg tccttagcaa catgg 445

<210> 7440
<211> 226
<212> DNA
<213> Triticum aestivum

<223> unsure at all n locations
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<400> 7440

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aaccgccgca acctccaagg aacctgccaa aaaggcccg cccttgagaa ccaaaacccc 120
gaaaaccttc ttggaaccgc ccaaaaaccg ggaaaatggt aaaaaggggt tgccccctt 180
gaaaaccaca accggaaaaa aacccaaaaa actcgttggg cccaag 226

<210> 7441
<211> 421
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-024-Q1-E1-E4

<400> 7441

aacgacgaaa aaatgaggct atggtggtta tcaatgcaat ggtaaggatt agaaaaagat 60
ttcatcaagg ttacggccaa ggtatccgtt tgaaagcatg gacggttggt ggcgattaac 120
agtccttggc gaagatgagg agtggtagt ttgatatagc accgtaccta tatagccgaa 180
acacaatagg acacgaaacc acaactcaa ttctcaaaga caaaaacggg ccaaaattga 240
cggggatggt agcgggtgaag tgaaggtggt tcttgacagaa atcgatggtg gtatcggagt 300
gtgtatgcgg tgggtggagt ggaattgaag tgcgtatgcc ggagtgggtg ccgtggccga 360
aaattttcgg gcgaaaaaaa agaagccaag gaagcccccc ccccaaaaaa aaagaggcca 420
t 421

<210> 7442
<211> 409
<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-024-Q1-E1-E7

<400> 7442

gggcgtactc tatatatatta ctaggcgcca tgtcggacaa cgacttgctg ggaaattgct 60

tcctgtatca ctgtatgtaa gtcttttagca aacacttaca catttgcgctg ttctacgcac 120

atcgtctaga atttcagtga ctttgcgcat catgacaaaa tttcagcagt tcacttgctg 180

gaattgccat tgtcgcaact tctgagagct cgcgcgcatggg gtgctttcca tctgacagcc 240

ttgtagctga attcaatcca cattcattgt ttatgatatc aagttgtaat tgttgagttg 300

taagaaaaaa gataagtgtg atgatcatca ttaatagaga cattgtcaca atgaggaaaa 360

gatgatggag actaggagtc acccacaagt cgggacgaga ctccagaaa 409

<210> 7443

<211> 279

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-024-Q1-E1-E8

<400> 7443

cgggtgtaac ttaaagtgtt tcctctgtgc ctggtcgtac atagacttgt ctgggacatt 60

gcttcgtgta ccactgtaag tgtgtcgtga cgtacacatt actagagatg agtgatacac 120

cacaaacgtc tatagattca gtgacattgc gcatcatgac aaaatttcag cagttcaatt 180

gaggggaattg cgattgtagc aacttctgag agctcgcgca tgggggtgctg tccatctgac 240

agccttatga ctgaattcaa tccaaagaca ttttttatg 279

<210> 7444

<211> 434

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-024-Q1-E1-E9

<400> 7444

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ccactggagg caggagcagg cattctcccc ggcgctgggt tgggcgggctg gtgcatgaag 120

ctgctgtac cctgtctctc tcccgtgtgt cattgaaaca tctttctttc tgtgtgaatc 300
 tgcaagactt ggccccttaa aaaaaaaaaa aaaaaaaaaa aaaaaaatta actaaaaaaaa 360
 aaaaaacaac aaaaaaaaaa agcaaaaagt aataaaa 397

<210> 7447
 <211> 457
 <212> DNA
 <213> Triticum aestivum
 <223> unsure at all n locations
 <223> Clone ID: LIB104-024-Q1-E1-F11
 <400> 7447

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 cttcggtacc gtgcaatgcc ctttctcacc ttcagagttg gtgcaaactt cgccggtgca 120
 tccaaacccc gtgatacgat acgctctatc acacataaac ctccttatat cttcctcaaa 180
 acagccacca tatctacca ttatggcatt tccatagcca ttccgagata tattgccatg 240
 caactttcca ccattccgct catcattttc atgacatact ttacttttgt cacattgcca 300
 ttgcatgata atgtagttga catcgtattt gtggcaaagc caccaagcat tatttttcgt 360
 acatgtcact cttgattcat tgcaccatcc tggtacacca ccggaggcat tcatatagag 420
 tcatatcttg ttctagtctc gagttgtaat ccttatg 457

<210> 7448
 <211> 437
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-024-Q1-E1-F12
 <400> 7448

acgggcctta tgaaaactag aactggatac ttaataaaac acacccttcc aagtgccaga 60
 tataadccgg tgatcgctct ctaacagggt gacgaggagg ggatcgccgg gtaggattat 120
 gctatgtgat gctacttggg gaacttacca tctattctct tctacatgct gcaagatgga 180
 ggtggcctga agcgtagtct togacaggat tagctatccc cctcttatto tagcattcta 240
 cagttcagtc catcgatatg gccctttaca catataacca tgcatatgta gtgtagctcc 300

ttgcttgcca gtactttgga tgagtactca cggttgcttt tgtccctctt tcccccttc 360
tatacctggg tgtagcaacc agatgctaga gtccaggagc tagagatccc gaggatgatt 420
ctacgtggag ttcggt 437

<210> 7449
<211> 454
<212> DNA
<213> Triticum aestivum
<223> Clone ID: LIB104-024-Q1-E1-F2
<400> 7449

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ccccattggt ggaagagttg acatttttgg tatatatggc ccctgccctg ttggaacggg 120
tactgtctta atcagtgaca gtatattggt agttaatacc cgagatgcag accttgggca 180
tgataacacc actacgtggt gcaaattgca tctgagggtta cgtggctgga gtatcttggt 240
gcgtcagatt cttttttattc ttcttcttct tctgaaaatg tacaaaatga atctgaacga 300
aggactatgc aaattatcgt gaaattttta tttttttgaa aaggggattg tegtgaacgt 360
tgagaatttt aaaaattgaa tctgaatttt agtactttta cgagatgaaa tcgggtctga 420
aatgggagag cccgacagcg acgtactccc tccg 454

<210> 7450
<211> 218
<212> DNA
<213> Triticum aestivum
<223> Clone ID: LIB104-024-Q1-E1-F4
<400> 7450

aatcaaaac ataatcacia cgcattgggcc aagttggcgc ctatgaaagt tgggcaaggc 60
caaagagatt cgtccccctt gcaccaagct gccagaccta acaagaacat gcaacctggc 120
aatggggacc tcccacaaga aggaatgaat gggaatttcc tgaaaaaagg gccctgggg 180
taaatgggt aacccacat aatccccaaa agggggccc 218

<210> 7451
<211> 408
<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-024-Q1-E1-F5

<400> 7451

gggttgatgt gagacctgta gcatcagtgt cccatagcac atgctgcgtg gaacagtttg 60

actgcagcat cagcaagtct cagctgcctt ttgtgcatcc tgggtgcctg attgtcaggt 120

gcatcaattg ataccagcac attccaactg tcattaggca tacattgtca tcgatagata 180

tatgcctttg aacttcatcg cagtacatct atgatcacta tggcgtaaaa caccaggagg 240

taccatgtca attcacacat tttgccagca tatctcattg agcttgtcaa tctactaaga 300

tgatagcagt tcttacatct tttataattc gacatcaatt actgtgatct ataattttac 360

agtgcattgt cacttatcac tatagtgtta cctattgcac acaacatg 408

<210> 7452

<211> 439

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-024-Q1-E1-F6

<400> 7452

gggcacagtc aaacacgcgt cctacttgtc gccgtccaat ggtcgggaac tctccgagg 60

atgagtaggg catgggaggc ggcagggcat ggtgtgccaa ctggccggtc cgtatcccg 120

gttctactct tctcaccgg agaccgcacc ttcacttcac ggtccttgaa ccccgcccc 180

gtacatagag atgcagatg gaggacgttg gtcaccgccg tagaataggt ttaggatcgg 240

gtttctttta tttttctgtc ctataaaagt tcgaaatgta atgaaaatct ggcgtgtttg 300

cattaatctc ggctgggtga tatgaacttt cacaataata tacatattgt aggagtacta 360

gcaagatgcc cgtgcattgc acggaagatc aagatcttgt gggagaaaag gatgaacgag 420

ggaaaacctt atctgcaa 439

<210> 7453

<211> 449

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-024-Q1-E1-F7

<400> 7453

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agaacaaaag acaaagaacg tgtattagta cttgctgccca ctaataggcc gtttgcattctt 120
gatgaggctg ttattaggag gctcccaagg aggttgatgg tgaatttacc agacgcaacc 180
aataggaaaa taattattag tgtaatacta gccaaagaag atttggcaga agatgtagat 240
ctggaagcag tggccagctt gactgagggg tattcaggca gtgatctgaa gaatctgtgt 300
attactgctg cacatcgctc cataagggaa ctccttgaaa aagagaagaa ggagagatcc 360
ttagcagaag cagaaaacaa atcattgcct cctaagtatt ctagcagtga tgtccgtccc 420
ctaaatatga gtgatctcaa acaggcaca 449

<210> 7454

<211> 274

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-024-Q1-E1-F9

<400> 7454

cgggtagaca ccagaggggg ctatgggttac acagagtagg ttacagagaa aggaatcttc 60
acatccgaat taccaagctt tccttccacg taaaggagag tcccattcgg atacgggatg 120
aagtcttcta tcttgcattc tcattgtcca acagtctggc attcgcatat agtccggctg 180
tccgaggacc ctcaatccag gactccctta gcaggcacta actagccact tcacaagccc 240
aaattacctg ctgggaatgg ctttggcagg ccat 274

<210> 7455

<211> 432

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-024-Q1-E1-G12

<400> 7455

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tttaggcgtg ggaggcggcg gagtggcggt ggagccggcc ggccagactc acaatcgatg 120
gagaggggtg tgcggctcag agcgggaggc tgtgacagtg gggcgtggcg gaggtggtgc 180

cgtgcggccg gacgggatca tcctggtcga acaggctcgt gccccagggc tgctcaccgg 240
 actccaattc ccaccgctct caagctctag atcgagcttc gtctggaccc atctatttgt 300
 gcgatactgc gtttcctctg gtggccatct gttccgctca gcgtttcttc tgaatttgag 360
 aggagaaggc cttgaggagg ttcatgcaac catggactgt ttagatgaga ttagttgaga 420
 gaaaaggaaa at 432

<210> 7456
 <211> 350
 <212> DNA
 <213> Triticum aestivum

<223> unsure at all n locations
 <223> Clone ID: LIB104-024-Q1-E1-G2

<400> 7456

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 aacaagaaac aagttagcac aaccacaatc cgtttcaata caatcctcaa ttcaattaag 120
 gaaggcttgt tgacaatgat tatgtttagca acaattgaac aaacatctgg acaaaggccc 180
 tgggggcgcg tcaaagttct cggaagatgc gactttaagc tcggcgatcat ggaagtatca 240
 nacgggacac aggattaagg gggatgatntg ttgacctgtt aatcctggcg cccttgatc 300
 tagtttaagt agttgtttct ttgcttttca aaactctacc gcatgtgcac 350

<210> 7457
 <211> 359
 <212> DNA
 <213> Triticum aestivum

<223> unsure at all n locations
 <223> Clone ID: LIB104-024-Q1-E1-G3

<400> 7457

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 cgattcttcc gcaggaggag aagattccgg caatcatctc ccgcttcaag gtgttccatg 120
 agacgttcat ggcagagtac cgtgactaaa ctggtgttac atgtgtggga ttacatgcaa 180
 gcctcatgga ttttccctag gcgtttttgc ccgcgttgac agcagtatcc tgtagatgag 240
 aaaaataag gcaaatccat ggcttgtgtg tgtgatacta tatcagatta ccagtctgat 300

gcctttgatg gcaaattggc aactgagaat ttttatttcc acanaanana nnnnnnnna 359

<210> 7458
<211> 404
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-024-Q1-E1-G4

<400> 7458

tcgacggggtt cctcattgtt caagttcagt tgggttatgc tacttgaatg gttcgaaagc 60
acaggtttga agatgatttc cctgcatgtt tgggttttgc tttcctgctg atccgtttct 120
tccctgaact ttcagttatg gttgcttata cagaagagag acggtcaata ttgtatgctt 180
gtgtatgcta gtgaagtggc atgattcatt tttcttgtgt gtgcatgcta cttatagtgc 240
aaaattgttc gcttgtatat gctactgtaa gtgcctatgt tgaagcacac tatttaagtt 300
tgttttacac acagaacttc aactagaaac ttttgagaaa gtacgcccgc tttgtttttg 360
tgaaaagttc aagtatgatt gtttgaaaag tacaaaaatg aatg 404

<210> 7459
<211> 441
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-024-Q1-E1-G5

<400> 7459

cggggatgag gaaggtgact tcgcgagggg cgaagaggaa atctcggaag gagaggagta 60
tgacaacccc aaggccagtg acgccaagaa gaaacaaata ggcgaggggtg aggagaatgg 120
cgaggatgat gaggaagaac aagaggagca ggagggtgga gggggtgacg acgatgatga 180
tgacgacgac agcgacgatg acaatgagga cgacgacgat gatgacgatg gtgtcgtctgc 240
tgaagacgat ggagatggag tagaagagga ggatgatgac gatgaggagg aggaggacga 300
tgaggacttg ctccagcccc cgaagaagag gaagaagtga agcccttcga cgcggtctgt 360
ttagtcacca tgcgacgaga tgtgctgtc cttcactgtg ttctggaaac tttccttaga 420
gttaaaaatg cccccacacg a 441

<210> 7460

<211> 448
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: LIB104-024-Q1-E1-G6

 <400> 7460

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 agctaattctt gatatttcta ttagcatggt tgagttttgc atgtagtcta gtctagtgtg 120
 gtgttcgtcc gacgaaggtt tcagggtgagc gcgccaagga ggtgagatgc caggatgccg 180
 tgtgaggcgg cgagcacggc gagatgccga tgggtgctgcg tgagaagcgg caagacgtat 240
 cagaggctgg agccgtgatg gactgcatca aattgggtcg ggtgaaccgg ccggtcgttc 300
 tgtttgttgg actagctgtt catgctgtgag ttcgtttagt cctagctgag agtatcgttg 360
 ctagtagttg atgcatgcat gtagttggcc tggtcacaag tggttaccga gtcgtgtgca 420
 acgctggagt gatttcagga gtggagta 448

<210> 7461
 <211> 401
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: LIB104-024-Q1-E1-G7

 <400> 7461

 catgttatca aaagtaccga ccttagtgag ctccgatata ttagatggg catcaaggag 60
 gtgttaaggt tgcacccctc ggctccgctg ctgcgccag agagaggaga gaggactgtt 120
 aaatcatggg ctataacatg cctaaaggaa ctaatatctt cgttaatatc tttgtaattt 180
 ctggggatcc caaatattgg gacaaccag aagagtacaa gccggagagc tttgagaaca 240
 gcaacgtcga atattatggg acacattttg aattcgaaaa aaaaaaaaaa aaaaaaaaaa 300
 aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa agggaaaaaa 360
 aaaaaaaaaa aaacaaaaaa aaaaagcggc ccctcaaaag g 401

<210> 7462
 <211> 420
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-024-Q1-E1-H1

<400> 7462

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tacatgcgggt catggactgg caccattatt ggtcctcaca atactgtcca tgagggtcgc 120
atctaccagc tgaagctggt ctgtgacaag gactaccccg agaaggcacc atctgtttaga 180
ttccattcaa gaatcaacat ggcttgtggt aatcacgaga ctggggcggt tgacccgaag 240
aagttcagtg tgctagcgaa ctggcagcga gagtacacta tggaacatgt cttgacccag 300
ctgaagaaag atatggcggc gacgcataac cgcaagctag tgcagcctcc agaagggaca 360
ttcttctagc ggggtgtttg ctggcccatc tccagtttca acagcagcga tctatgtcac 420

<210> 7463

<211> 416

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-024-Q1-E1-H10

<400> 7463

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ttagagtcgt tctttcccat tttaccgtgt ttgcatggta agatgtttgg ttggatttga 120
aggttcatag ccttggtccc aaagcttcaa gctcttatag aaattagaac tgagggcctt 180
ttaaaatgag tcctgcataa tagtggttgt cagtgggatg cagattgttt ggtaaatctga 240
tcggctatcc ttggtgctga tttacgtact gatttcatca tcatatgact acaataaaga 300
agttatgtgt ataaatatta cgaactgctg atactttgca tcagtgattt caattcaaaa 360
aaaaaaaaa aaaaaaaaca aaaagaaaaa aaaaaacaac aaaaccaaaag aaaaag 416

<210> 7464

<211> 452

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-024-Q1-E1-H11

<400> 7464

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ctgggcacca tggataccga gtaccagggg gagaacctct ccacatctag gggcatggag 120
gagcaagcca gagggggtcc ctctcttccc tctctctcga tggcgtcaga atgccaccgg 180
gggaaccatc tccgcagtaa tcgtctttat caacatcacc gtcttcatca cctccctaata 240
ctcttttttag cgggtccactc tcccgcaacc cgctgtaatc ccctacttga atatgggtgct 300
ttatgctata tattattacc caattatgtg tagccatcct atgatgtttg agtagattat 360
ttttgtccta tgggttgatt tatgaacttg attggtttga gttgcatggt ttactttggt 420
gttatectat ggtgccttct gtgacgcgcg ca 452

<210> 7465

<211> 401

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-024-Q1-E1-H12

<400> 7465

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tggccgctcg tattaaaaca tcttgaaaaa aaaaaaaaaa aaaaaaaaaa aaaggggagg 120
cccaaaagg tcaaacctta cttacccttg aatgcaaatt caaagccctt caaaagggcc 180
cccaaatttc aattcacggg ccgtctttta aaaacttcgt aacgggaaaa acccgggggt 240
tcccaaatta aaccccttg aagaaaatcc ccctttcca acttggttata ataccaaaaa 300
ggccccacc gtttccctt ccaaaaattt gccacccta aatggcaaata ggaaccccc 360
ctgtaccggc ccataaacc cggcgggttt ggtggttaacc c 401

<210> 7466

<211> 441

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-024-Q1-E1-H5

<400> 7466

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acgtgctgtt gatggaatct tcatgtctt gagagcattt gaagacacgg aaatcaccca 120
tattgatgat acagttgatc ctgttcgtga tttggaaact attactcaag aactgaggct 180

caaggatata gagtttgtgc aggctaaaat tgatgacctt gagaaggcaa tgaagaggag 240
 caatgacaag caacttaaga tagaccatga attatgtcag aggatcatga cacatcttca 300
 agacgggaaa gacttacgtt tacgagaatg gaaagctgct gaaattgaga tcttgaatac 360
 ctttcagctg cttactgcta agccagttgt ttatttgggtg aacatgagtg aaaaggacta 420
 cctgagaaaa aagaacaagt t 441

<210> 7467
 <211> 441
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-024-Q1-E1-H9

<400> 7467

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 aaccctgaaa gaagaaagac ggccctgccc ctgatgtttg gaaggaaagg ggcgtgtggt 120
 agctgatgta atgttacacc gtagaatcat cgttcgtgac gataataatg atccgaccag 180
 aactcctcta gtatcattgt tctgttgtca ttgtgtagtt tactctgtat ctgaactttg 240
 ttttactcag cgaaaccgta ctgctatgat gaatgtgtcg atgtaaactg tggctgtcgt 300
 gcctgtctga ctgatacatt gttcatgtag tcgatgaatg atagcacctg tgtcgtctca 360
 gtttcaaaaa aaataagaaa ctaaaacaat aaagaaaaga aaaaaaaaaa aaaaaaactc 420
 aaaaacaatt acataacact t 441

<210> 7468
 <211> 130
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-025-Q1-E1-A1

<400> 7468

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 aggcgatcct gttgcagttt actccggact cgcttgaagg tgtccgggggt ctgtatcgcc 120
 gaattagtgg 130

<210> 7469

<211> 365
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: LIB104-025-Q1-E1-A11

 <400> 7469

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 cttcatgttt gtttacataa ctctgcaagt tcccacacaa cgacacgatg ctttagatga 180
 tctatatcta ctcacgtggt aagaggattc gttcggatga cttactcttg ttttacccca 240
 tacaagtaga tggaaagttg agacttggtt ttcttcatgt ggaagtgatg gtttgtagta 300
 atatcctgaa aaaatgtggt tatgttcttc ttgttctaata tgaaatctgg tacgcaaacg 360
 ccatg 365

<210> 7470
 <211> 405
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: LIB104-025-Q1-E1-A2

 <400> 7470

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 ggcaggtgaa caacgtgaag gcgctcgtcg ggccttcga gaccgtcatg gacgacagcc 180
 aaagcatcgc caccgcagc aagccgctgc tcaacctcca tgctgaact acgagtacat 240
 tccaccagca tgaaactcga tcgctgcgc ctctccttt agcccggcta ctctttaatc 300
 acccatcaac ccaatttgtc gtcgtcgac acttatctat aattacggta tcgcttatac 360
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<210> 7471
 <211> 103
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: LIB104-025-Q1-E1-A3

<400> 7471

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<210> 7472

<211> 465

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-025-Q1-E1-A4

<400> 7472

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taatgttgaa agcaatatta tccaaacttt tacaccgaaa gaacacataa aagagtcctt 120
ccggaacact ccagaatcgt caaaataagg aggtacgtga tacggtaagt aaacggactc 180
caaaaaatct gcaaaaatat tttttatcga tcttggtata ttttaaaatt ttggaaataa 240
agaaactccc aggaagcgtc acctgatggg cataatacac cagggtacgc caggctttcc 300
tggcgcgccc aggtgagttg tgcccacctg ggacacctcc tgtatttcat ttttcttcca 360
tgtacttgcc ctgcaagatt aaaaatctac ataaacttac caaacatggt aaccaccata 420
tcacggagaa atcctctggt ctcttttctt gctattttct gacag 465

<210> 7473

<211> 378

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-025-Q1-E1-A5

<400> 7473

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tttgatcaac aactggggat cctgagttga atatgatatc aaatccggtg aattggtaca 180
gtttcgggcc tggatagaag ctgtagtgat gccagattgg aaggcgggag agtttgaagg 240
taaattcaac gatgaatttg ctcggggtaa tagcaacttg caagaagatg gagcaaggcc 300
tttgaatatc tcaaataaga aactgaaaca tgggattaac actgaagaga acccgcaagg 360

tgtcgtgtct acaacaac

378

<210> 7474
<211> 374
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-025-Q1-E1-A6

<400> 7474

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gataatgagg tacgtgtgac cggttttaca ttcgggccag aaaatctgtc tttaaactt 180
ttaccgatct tggcaaattt gaaatctttg gaatatgatt caactctcag accacctttc 240
cctgtatgag cataatagag gagcgcaagc catgctgtct agtcgcgta aagtaacttc 300
tggatcatcag cgatatgcc tgaatggcaa tgttcttgca gctgtatgca ctgaaacatt 360
gccccacttg actc 374

<210> 7475
<211> 448
<212> DNA
<213> Triticum aestivum

<223> unsure at all n locations
<223> Clone ID: LIB104-025-Q1-E1-A7

<400> 7475

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cgtcgtccaa cgagaaggac atcgaggaga tcaacgtgga ggatgacggg agtgtcgcca 120
tcgcgatgc ctccgtgggc gtagtcacca aggaggatga cagtatcatc tcggccgatg 180
ctccggcgat agagaaggac cagatcgaca cgttcgtgcc tgctccggca gccaaaggcca 240
acgatgatgc cgggtgccacc ttcttggtg ccccggtggc cgggtgatgat ggcagtgcct 300
ccttcgttgc tgcgccggcg gccaaaggagg acgaacttgt atccatctcg tctgctccgt 360
tggcgaggga gattganggt atcatcatgg cggctgtcc ggctcgtgac gatgttgatg 420
ttgcaccttc ccggacgctc cggtgccc 448

<210> 7476
 <211> 398
 <212> DNA
 <213> *Triticum aestivum*
 <223> Clone ID: LIB104-025-Q1-E1-A8
 <400> 7476
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 gcaagaaatg gtggagtaca ttacacaatg aagtgaaacg ttcatactct atactctcat 120
 tgaatcggac gtggaacaaa acgctgacaa tcaaattgcca gatgaccctt atgagggtcat 180
 atcaatcttc atggatgaat tcagtcgcac gagaaggaac atcattggcc atgtctctgg 240
 gtggttggtg agcgacagcc gcgaagataa gatcgatgat tttgtccagg aaatggatat 300
 gacccgcttc tggacactag aaaggagaga agggatcgcc gaggtcctcc tcaagaatgt 360
 ggacattaat actaagttcc actgccctga gaaatatg 398

<210> 7477
 <211> 412
 <212> DNA
 <213> *Triticum aestivum*
 <223> Clone ID: LIB104-025-Q1-E1-A9
 <400> 7477
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 tgggtgctgt cgtggagtga acgatctgca tgcgcatagc cgttgccaac tgttgagtc 120
 acgtgcgatg tgcgcgcggc tggagggagt tagctgcatg ctacctatat ggttgagcgg 180
 gtcattgctag tgcattgcaag gcgcagcccg gcgggtcacg tggatcatgca tggatatgga 240
 tcgtgcatct aatgggttagc ttaatgcgtg agttatttgc cgagtgtgca cgtcgtgtgg 300
 tgtgtgtgca ccgttataag aaaccctccg tctatgtact gctcgagctg aaccgggtgtg 360
 taaccatgta accactgtta ggaagaaaag gattggggcg ttcattgctc cg 412

<210> 7478
 <211> 390
 <212> DNA
 <213> *Triticum aestivum*
 <223> unsure at all n locations

<223> Clone ID: LIB104-025-Q1-E1-B1

<400> 7478

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tgtacactct gaaagggggc gtgtccaact tactcaagac caaaggagcg ctgagtgggt 180
gggtaacctg tttgtgttcg acgaccggct ctccctgcc a cggccaagt ttgcangggc 240
agaagtcgca gcagaagaag ggggtgccga caacggggat ctgtcatcgt ctcggtggct 300
ggggcggtgc tacttgtgcg ggtccgangt ggaggagctg angcaacgca actgcgccag 360
catcgactgc aaccgcctct acctgtgctg 390

<210> 7479

<211> 369

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-025-Q1-E1-B11

<400> 7479

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ccctcgctt ggcctccctg tgggagatgg ccaccaacaa gcaagccgat gacacctacg 120
gggagatcag cttctccaac ctctccggct tcaagtattt agttttcatt aacgctgtca 180
ctgccgcta ttccgtgggc tccatcctga tgtcatcctt caagtccctc gctcgcttcg 240
attggctcat tttcctcctg gatcaggcgg cggcgtacct gctggtgaca tcgtgctcgg 300
cggcggcgga gctgggtgtac ctggccaagg aaggccaacc ggaagtttcc ttgggccaag 360
ttttcccc 369

<210> 7480

<211> 448

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-025-Q1-E1-B12

<400> 7480

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ccggtgggca tattttcatc agggagtcct gcttccacca gtctggggat tccaagagga 120
aagtgaacct gacgcactac cgggagccaa ggttttacac caaggtgttt aaggaatgcc 180
actcctatga ccaagatggg aattcctttg agctttctct ggtaacttcc aagtgcattg 240
gagcttatgt gaagagcaag aagaaccaga accagatatg ttggctatgg gagaagggtca 300
agtgcacaga agacaaaggc tttcagagat tcctggacaa tgtgcagtac aaatccactg 360
gaatcctgcg ttatgagcgc gtgtttgggg aaggttatgt cagcaccggg ggattcgaga 420
ccacaaaaga atttgtggac aagctgga 448

<210> 7481
<211> 278
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-025-Q1-E1-B2

<400> 7481
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cagcgacgcc atgcgacgcg atgatccggg agcagagcgg cttcggttaa gaaataaata 120
aagaggatcg gtgctccacc gtgctgcggc cgtgtggtgt tgggtgtgat tgtttgcttg 180
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gtacgtgctg tattcctgaa cttgtactgt gacgagcg 278

<210> 7482
<211> 305
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-025-Q1-E1-B3

<400> 7482
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taatgttgag tccatggatt atacgcactc tcacccttcc accattgcta gcctctcttg 120
tgccgcgcaa ctttcgccgg taccatacac ccaccattac cttcctcaac acagccacca 180
tacctaccta ttatggcatt tccatagcca ttctgagata tatttccatg caactttcca 240
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tgaca

305

<210> 7483
<211> 477
<212> DNA
<213> Triticum aestivum

<223> unsure at all n locations
<223> Clone ID: LIB104-025-Q1-E1-B6

<400> 7483

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ttcaacgaga gcttcgacgg gagctggatc gtgtccggca aggaggagta caaagggtgta 180
tggaagcacg cgaagagtga tggccatgaa gactatggtc tccttggttag cgagccagcc 240
aggaaatatg ccataatcaa agaacttgat taccagtta ctatgaagga tgagacagtt 300
gtcctgcagt ttgaagtgag gcttcagaat ggccttgagt gtggagggtgc ttatatcaag 360
tacatccgtc ctcaggctac cggatggaac gccaaaggact ttgacaatga tactccatac 420
acaattatgt ttgggtcccga caagtgtggt tcaacgaaca acgttcactt catectg 477

<210> 7484
<211> 458
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-025-Q1-E1-B9

<400> 7484

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ggcgacggct aaacgacgat ggaacgggca gggtaagggg gaattgatac gtctccaacg 180
tatctataat tttttattgt tccatgctat attatattct gttttggatg tttaatgggc 240
tttattatac acttttatat ttttttggg actaacctat taaccggagg ccagcccaa 300
attgctgttt ttgcttatt tcagtgtttc gcggaaaaag aatatcaaac ggagtccaaa 360
cggaatgaaa cttttgggaa catgattttc ggaacaaacg tgatccagag gacttggagt 420
ctacgtcaaa aatcaacgag gaaagcacga gcaagggg 458

<210> 7485
 <211> 366
 <212> DNA
 <213> Triticum aestivum

<223> unsure at all n locations
 <223> Clone ID: LIB104-025-Q1-E1-C1

<400> 7485

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gcgtggggcgt gtgcgcaagc gaggagcaga gaaaacaagg gagcctccgg cgcattgcag  180
cgggacggcg aaggagctcg ttggaggaaa ctccggcgac caaaagctac ggctgaggtg  240
cgcaaatgaa ccgcaacggg gacccgaact cgcgcatgtc tcgcacagca ccaagtgcag  300
atggangcgt cgccggtgtt gaggaaacag aggcggtgag gccatacttg aactcgaaga  360
aacaca                                           366
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<210> 7486
 <211> 445
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-025-Q1-E1-C12

<400> 7486

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gcggtgttac gcggaggagg ccgagtggaa gaactgggtg tggcactcgg agggggacct  120
gatgtcaac gacgccgtct tcaccgacag cggcggtccc aaccaaagga agttcgagaa  180
ggatgacctc atcccgccca agccgggatc gtacgtcacc aggtcacgc gcttcgccgg  240
ctgcttgccg tgcaagcccg gcaagccctg ctaaactctg gtggccccgc cggccggccg  300
gagccgatcc cttccgaatc ttcaattctc tatatagctt tgttcaattc ttttactcaa  360
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<210> 7487

<211> 313
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: LIB104-025-Q1-E1-C4

 <400> 7487

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 gattgcccgga tggcgaaggt gttgtggcgc tcggtgcaaa ttgcctttta cattactcct 180
 tcaaatttgg tcaggtcggt ttttggaacg tggctggttg gtatagaggc tgaaacagct 240
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<210> 7488
 <211> 448
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: LIB104-025-Q1-E1-C6

 <400> 7488

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 ttttgttccg tatgtagtcc atagtggaat ctctacaaag acttatattt aggaatggag 120
 ggagtatatt ccaatgatgg gcttcctcaa attgccctag gtctttgtga tgcacacca 180
 cttagtttct ttttgagctt tcatacactt atagctctag tgcacccggt gcatggcaat 240
 ccctactcac tcacattgat atctgttgat gggcatctcc atagaccatt gatacaccta 300
 gttgatgtga gagtcgttaa tagcatggta atttggcct tctttcttga tctctcatgc 360
 ttcacttaga ttattttgag attcgttaat agcatggtaa ttttcttaat gttaataatac 420
 ttagtgttca agatatgtga aactttct 448

<210> 7489
 <211> 453
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: LIB104-025-Q1-E1-C7

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 <211> 286
 <212> DNA
 <213> Triticum aestivum

<223> unsure at all n locations
 <223> Clone ID: LIB104-025-Q1-E1-D3

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 catggagaag aagttcgaaa caaagctcaa taacaagttt taatgaattg ctgcgcgcgc 180
 ttccaccacc accaccggct ggccctaacg canctctaca acaacaaaca acaacatcaa 240
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<210> 7493
 <211> 83
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-025-Q1-E1-D4

<400> 7493

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 gtccttaaag acttattcca cat 83

<210> 7494
 <211> 439
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-025-Q1-E1-D7

<400> 7494

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 agcatgttcc ttaatcctaa cacggaaagg tgtggtttct caatataagc agaaggaaca 120

actggatcaa cattataaag tatagtttcc tctttaagta gaactagttc tttaatttct 180
tctttaatgg gtgggtgata tttaaaccac ttctccttat ggagttcaat atgggtagca 240
aatgattcac aaaaggaggg tactatctca gagtcaagtc catatttagt gctaaacttt 300
tgaaaagcat cagtatcaat aagagattta acacaatcat acttaagttt aatacctgac 360
tctttacctt cgtcgagttc ccaatcttca gagttgcgtt taattctttc caaaagattc 420
caccggaatt caatagtct 439

<210> 7495

<211> 442

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-025-Q1-E1-E10

<400> 7495

gggtccacgg ggaagttgaa aagctgattg gcaggatagt gaagtggctg aagcccgggtg 60
ggcatatttt catcagggag tcttgcttcc accagtctgg ggattccaag aggaaagtga 120
acccgacgca ctaccgggag ccaaggtttt acaccaaggt gtttaaggaa tgccactcct 180
atgaccaaga tgggaattcc tttagacttt ctctggtaac ttccaagtgc attggagctt 240
atgtgaagag caagaagaac cagaaccaga tatgttggct atgggagaag gtcaagtgca 300
cagaagacaa aggctttcag agattcctgg acaatgtgca gtacaaatcc actggaatcc 360
tgcgttatga gcgcgtgttt ggggaggggt atgtcagcaa cgggtggattc gagaccacaa 420
aagaatttgt ggacaagctg ga 442

<210> 7496

<211> 447

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-025-Q1-E1-E11

<400> 7496

ttcccgggtc cacggggagg gatggatacg ccatcgatgg gagtacgatg ggggtggtgag 60
gcctgcacag ctgcacagcc ggccgccgag gatagagcag gcagtcgcgc cggcgcttgt 120
ttaagcggct ggagcatgaa gagcacatat tgaataagca cgactgtcat tggatggaca 180

tccaacagtc actgcttggtg tgtcaacatt tttttaacgac aacctcaagt ctgtggtaaa 240
cagcatacat tccatctgcc attatttcta ataatttaca tcccatttgc taattcgtat 300
gggttttttg gagcccagat tctttttgtt agcattacaa cccatattgt ggcacacggt 360
aaaccactat acgaaatttt gcataattca gtgctgtcca aactattttt aatcccacaa 420
tttcgagtca gattcagact gatttta 447

<210> 7497

<211> 413

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-025-Q1-E1-E2

<400> 7497

ggtcgacatt cacgggtcac gggctctgatc aattgaatca tgcactttga tgtgacagtt 60
ttagtcaata gaagcttaat tatagaaaat tgtggaaaca aagcccatgt tctcatctgt 120
aagtggctag ttcacaataa tgtcatattc ctaggaaaat tataaatcac tatgggggta 180
agcgggttagg cacaattttc taaaaatgta ttattttcaa taaacgaaca taccaatcca 240
caaatagtgg acgcaccaac agaagatttg atgccagcac agtaactcat gagtgaacct 300
gttataacaa tttcgacaat acaaagattc ggctatcaaa tgaatactac aaaaattaca 360
aatattattc gttatccaaa agggaaaagt aaaagatgaa gaaacaccta cct 413

<210> 7498

<211> 374

<212> DNA

<213> Triticum aestivum

<223> unsure at all n locations

<223> Clone ID: LIB104-025-Q1-E1-E3

<400> 7498

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ttttttcatg taattctttg accgcagcag cagcttaacc ttagagcaga acacattact 120
ggctacttat tatgagtttt gtgaaatttg catcatgttt gtatatggta gaagtgtggc 180
agtggatgat gaattgaatt gactaagtta gagtgaagtg tttggttgaa gattgcggta 240

ttgcatttgc cagaancaaa ntaactcatg aatgaacctg ttataacaat ttcaacaata 300
 caaacattcc gctagcactt ttctcgagca aaaatacaaa atattactcg ttaaccaaca 360
 ggggaaaagt caaa 374

<210> 7499
 <211> 412
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-025-Q1-E1-E4
 <400> 7499

cgggcccaaa gcaccaaga taatatttca ataagtctca agcatctaag cttggggatg 60
 cccggttggc atcccacctt tcgtcttcaa caactatcgg ttagtatcgg ccgatcctaa 120
 gtttttgctt attcacatga tgtttaccat tcttagaatg tcattttctt ttgctttgat 180
 tgatgtttga ataataacc aagatatgaa attattaaat gttagagagt cttcacatag 240
 ctaaataatt atttaactac tcattgatct tcacttatat ctttcggagt agtttgtcat 300
 tgctctagtg cttcacttat atcttttttag agcacggtgg tggttttatt ttgtagaaat 360
 agatgaactc tcatgggtca cttatatcaa tttgagagta tttagaacag ca 412

<210> 7500
 <211> 427
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-025-Q1-E1-E6
 <400> 7500

gggtccacgg ggtaagcgca agatagaaga cctgcacgaa ctcataccgt ctacgcaatc 60
 ttctggaaat aaaacgagaa cgaaacgtcg gcgcaacgga caacggactt cgactcggag 120
 acagcaatca cgctgtagtt tcaagacgaa cttctttctt aaaatcgagc aggagcaatc 180
 gccgaaccac gcccgtgcc tcagtccgac cacggcccgcc tctctgattt cgcaaggtga 240
 acatgcgcac gatgggtttg ggattgggag cgccgttctt cctcctcgtc ctctctttgc 300
 tggccgctgg cactggagct gtgccgcagg acaagatggg tcgcatgaat tatgttcttc 360
 tcgatctcaa tacaatcgag atccgcccaa atgacaagga ggaaattgcc tctagcaaaa 420

ttcctgt 427

<210> 7501
<211> 267
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-025-Q1-E1-E7

<400> 7501

aatccatgc tgccaactct caaggtcctc ctcatccccg ggattctcaa tccaaccccc 60
ttccgtaacc cctcccgaag gtcaactgaa ccttgtaagt agatatccgg aaccaacc 120
aatccttttc ctttttttcg gaaaaaccaa caagagcaat ctccgaaaca agcccgatga 180
gccaatctcg aacaaagagc acacaaaaag gggccgctca agaatactaa ctcttaatga 240
ctcgtaaattg gaatgtcata cctcttc 267

<210> 7502
<211> 262
<212> DNA
<213> Triticum aestivum

<223> unsure at all n locations
<223> Clone ID: LIB104-025-Q1-E1-E8

<400> 7502

attcncgggt ccacggggca tccatacaaa atggaccaac tacagaaagc aaccctggcc 60
tcttcgggag taccgggaca attgctaaac cataataaca aactgggaag aattcaacaa 120
caggctccag gccaaaccaga gcaacacggt gctgtgaatt aagaggcgag caagaaggac 180
ctgaagagcc ggggcttggt cctcgtccca atctcgtgca cgtcccactt tggcggggac 240
aacgctgctg actactgggc cc 262

<210> 7503
<211> 448
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-025-Q1-E1-E9

<400> 7503

tccaaaattc ccgggtccac ggggcgtccc gaccctcac tcataaacat acacgtaacc 60

cagaagaccg ttctgtcacg tatacacaac gtatcggcat ctgtctatgt cccactcaag 120
catgataatt tgcacaatca gaactcaatg tctggatcac aggcacagga tcgcgagatt 180
ggcgtccgg cagaagacaa atacggacag agatacacgt cacctctcaa tgaagcagac 240
aaatagagta ataagtgaac taacgcgcaa ctaaaacgtc tagctcgagt ctcttacagg 300
ttggagctaa attcatctat atggaaatat tgtagcttcg agaactttcg taggagtctc 360
ggtagcataa atactatgaa agtacaaatg gtagaataat gttccaggat tggtttagat 420
acatcgagat gttaagtgga tcgatttc 448

<210> 7504
<211> 312
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-025-Q1-E1-F1

<400> 7504

cggggccacg ggtacttgca tagtacttac aacatgtagg ttgaattcta ctgaacatcc 60
attgagtaac tgagtgggtgt gaatgcatgt ctcatacaac ccttgagaaa tatgacataa 120
tgcaatgtat ctcaagttaa aattcccaag tcatgtgata tatcaagatg aaaaatggta 180
tggggcctta ctaatgcaa cctaaaatgc atacaagtct caagtcaatc tattgatcct 240
aagctagaac atttcatata taagataaaa gatcaagtgc caatgtttcc cttcgcatgt 300
tacaaaatgt ta 312

<210> 7505
<211> 372
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-025-Q1-E1-F10

<400> 7505

gtaatggtat gcctgcacca cgacctcagg tacgagatca tgtccagatt cctaaagtga 60
tattgaatac tccaccatth gagggtagat atgttcctga taggtatctt acttgggagt 120
tagatactga acaacgattt acatgtttac aatatcctga ggagagacga gttgctgctg 180
ctgtttgtgc tttcactagt tttgcatgtg tatgggtggtc tgaacattgc agattatctc 240

ctattcgacc tatctgggct gcttttgaaa gttctatgcg taccattcg gttcaacata 300
 ttttcaacgt gcattgcttc aaaatttgca gcgtttaagt acaagggaaa acttccggtc 360
 atcaatatta tc 372

<210> 7506
 <211> 256
 <212> DNA
 <213> Triticum aestivum

<223> unsure at all n locations
 <223> Clone ID: LIB104-025-Q1-E1-F4

<400> 7506

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 ctgaagcccg gtgggcatat tttcatcang gaatcgtgct tccaacagtc tggggattcc 120
 aagangaaag tgaacccgac gcactaccgg gagccgagggt tctacaccaa ggtgtttaag 180
 gaatgccact cctaattgaca anangngaatt tcctttgagc tttctctggt aacttcaaag 240
 tgcattggag cttatg 256

<210> 7507
 <211> 351
 <212> DNA
 <213> Triticum aestivum

<223> unsure at all n locations
 <223> Clone ID: LIB104-025-Q1-E1-F5

<400> 7507

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 aaaagccgga ctgaggatct taaaagatat acgcaggagt cataaaaata tgtcaatatg 120
 ggattgcagg ctgcactgct gacctctgcc gcactgactg cggagggtcaa tactttgaag 180
 caaatctcg agcgggtcaa gaacgagctc ggccgtgcc aagaagcagct cgaggacaag 240
 gaaggtgagt aacaccttat taaaattgta ccttacataa aaggattttg gttgaagaat 300
 gacaaggata acgtgggaat tgcangggcc actaacgagg tggtgaccct g 351

<210> 7508
 <211> 409

<212> DNA
 <213> Triticum aestivum

 <223> Clone ID: LIB104-025-Q1-E1-F6

 <400> 7508

 ggtccaccag ctcatggtaa ttaattatgc tagcgagaat gtcatectcg cttgccaggg 60
 acttcagcac cgccagctca tcgcgatcac cgacgcggct agtgcgcttg tgaaagccct 120
 tgcgtgctgg tgagaactcc tttgacggct ccgcagccca tcaagacatc tctattgtgg 180
 atgtcgcgta acggcgagac ctctctagtt cttttgcgac cttggtcatt gtccttggg 240
 tatatgtcat ccaaaactcc tcctatcggc catggcggaa tgacttgaca agtaagaact 300
 attttgtag tgattaagat acgaaacgtt gagttaattt ctagtgggta attttaaac 360
 ccggtgctaa gtgttaacat gtttaagttt gattcgtgtg aacaaattt 409

<210> 7509
 <211> 316
 <212> DNA
 <213> Triticum aestivum

 <223> unsure at all n locations
 <223> Clone ID: LIB104-025-Q1-E1-G1

 <400> 7509

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 cgaccgggag gtgctgcca gccggtggcg cgccggcgat gtctacgaca cggnggtcca 120
 gatcacgac gtcgcgcang agggctgctt tccatgcgac acgcangagt ggaggtgaaa 180
 gcaggcaggc tagtaaacia acaaagagcc aaagaagaag ctgatggctc ctcgttttgg 240
 ccgggctatg catcacagca caaggccaca ccacaccaga gatgattagt ttagtctaac 300
 agttaacacc agatga 316

<210> 7510
 <211> 452
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: LIB104-025-Q1-E1-G11

 <400> 7510

ggggtccacat gggcaacatg ctgatgatgg acaggttccg tcaatggcag gccacgcaca 60
 accggtcgta cctgagcgcg gaggagaggc tgcgtcgctt ccgggtgtac cgcgacaacg 120
 tggagtacat cgacgccacc aaccggcgcg ggcacctcac ctacgagctc ggcgagaatg 180
 agttcgccga cctcaccag gaggagtcc tagccaggta cgcgtcgctc tacgatgggg 240
 tcggtgatga tactggcatc acgttgctg tggggcgtgg cgacgccgag ctgtggtcgt 300
 ccggcgccga caatgatagc tccttgagg ctccgcctcc cagctgggac tggagatcca 360
 agggcgccgt cacaccgtc aagtccaat gcgcaggatg cgctagctgc tgggcgttcg 420
 tgacggttgc gacgatcgag actctgaact gg 452

<210> 7511
 <211> 86
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-025-Q1-E1-G2
 <400> 7511

cggggttcca acaatgatga gctgggaact gtgctgaact gaagatgggt gaagatatc 60
 acggtttgcc tgagtttgct ccatat 86

<210> 7512
 <211> 220
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-025-Q1-E1-G3
 <400> 7512

ctggttctta tcctgtgtg atgcatggc tgttgataca cgcgcatttg ccagattatg 60
 cgccattggt gtatctacgt gtcattatgg tactcattgc tttgtgtcat attgtgttcg 120
 tccggtatta gctctcttac agaacgtttc gattgaatgc cttgcctggt ggttcgtaac 180
 cgaccatcat tacttcgtat gatcttcgct attactggct 220

<210> 7513
 <211> 416
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-025-Q1-E1-G5

<400> 7513

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caaacccttc gcatgggctc gccgtgcatt tgtatggtct ggagaagctt acttgtctta 120
tagtttagct gctttatctg tctttggttt tatcgcttgt tgttttgtat ggttcaataa 180
tacagcttat ccgagtgagt tttatggacc caccgggcca gaagcttctc atgctcaagc 240
atttactttt ctagttagag atcatcgtct tggagctaata gtgggatccg ctcaaggacc 300
cacacgttta agtaaataac taatgcgttc cccaactggg gaggttatct tttgaggggg 360
aaactatgcg tgtttgggac cttcgtgctc catggttaca agctctaagg ggcccc 416

<210> 7514

<211> 426

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-025-Q1-E1-G6

<400> 7514

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attgaaacta taacgcctga gactatccaa tagaagaaag agccacaagc aagccatagc 120
agcatccttt ttcttgcgtt tcttcaacaa tttatctacc tcaactcctca tcataactca 180
aatgctcgtc ttgactctat catatcttcc ttgcatatgc atcacatcat aatttcaagc 240
tttatcagat ggagtgaaga gtacactttt agtggtcctc ttagtgagtt ggtttatgtc 300
aaacaacctc ccggttttga aaaaccccca tcacatttaa caactccatg aagcgctcta 360
tggactcaaa caagcatctg gtgcttggtg tgatcacctt aagacgtatc taaacgagaa 420
gggggt 426

<210> 7515

<211> 360

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-025-Q1-E1-G7

<400> 7515

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 ctgagactat ccaatagaag aaagagccac aagcaagcca tagcagcatc ctttttcctc 120
 gcgttcatca acaatttata tacctcaatc ctcagcataa ctcaaatgct cctcttgact 180
 ctatcatatc ttccttgcat atgcatcaca tcataatttc aagctttatc agatggagtg 240
 aagagtacac ttttagtggg cctcttagtg agttgggtta tgtcacacaa cctcccgggt 300
 ttgaaaaacc gcgatacatt taccaactcc atgaggcgct ccatgggccc aaacaagcat 360

<210> 7516
 <211> 134
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-025-Q1-E1-H1

<400> 7516

cttccatctc acagacactt ggcttcgggc aatcgatgtg ggagtggaca ttgtgttggt 60
 tccttcgaaa tttgggaaaa taagcaatca aatttaacct ggcaactaaa ttccaatcca 120
 atttgaatc ccaa 134

<210> 7517
 <211> 419
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-025-Q1-E1-H10

<400> 7517

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 gaagtgggtt agacttaaata gtgctagtca tattcttcat gatgctctct ttatgtttca 120
 attcttatct tttatgtgag tatcattgaa atcatcatgc ctagctaggg gcgtcaaacg 180
 atagcgcttg ttgggaggca gcccaacttt atttttgttc cttgattttt gctcctgttt 240
 agtagtaaata attttaccta gcctctgttt agatgtgggt ttatactttt aattagtgtc 300
 tgtgccaaagt agaacctttg ggaagacttg ggaaaagtct ttgcgatcat gctgtaaaaa 360
 aatagaaact ttagcgctct cgagaattgc tgccattttt tattggagag tgctattta 419

<210> 7518

<211> 324
 <212> DNA
 <213> Triticum aestivum
 <223> unsure at all n locations
 <223> Clone ID: LIB104-025-Q1-E1-H2

<400> 7518

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 tcttccttgt ccanattcaa ctaaatttct caagttttta ataaataaag ggtaatcaaa 120
 atcatagaag atgtccaaga taatataatt gtatgtgaaa agttccctcc ctatactaata 180
 cattcaagaa tttcttgtat gatcaatatt gtcattgtca agcttcaaaa gatttcactt 240
 tctaaacca atgtgaagcc aatactaagc atgatatgaa catataattt caaattcatg 300
 atattcaatt cattcaacaa tttt 324

<210> 7519
 <211> 333
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-025-Q1-E1-H4

<400> 7519

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 aaaatagagt gaagttcaag tagacatgcc gagaagttca agttcttcac gcggcgcat 120
 ttcgaagaat ttgttttgcg ataaaggcag aacgaatgat ctgccattt ttgaaattac 180
 ttgaaaacga ccaggaatca gagaaaacca tcaacatgaa aaagtttcgc attttccgta 240
 gcttttcaac ggtatattat ttgccccatt ccgataaaact ttgcagaaaa tacggcaaaa 300
 aatatgtttt taaccatttt cagaactaac ata 333

<210> 7520
 <211> 451
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-025-Q1-E1-H5

<400> 7520

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actacattac acaaagaagt gaaacgttca tagctgatac tctcattgaa tcggaggtgg 120
aacaaaacgc tgacaatcaa atgccagatg acccttatga ggtcatatca atcttcatgg 180
atgatttcag tcgcacgaaa aggaacatca ttggccatgt ctctgggtgg ttgttgagcg 240
acagccgcga agataagatc gatgattttg tccaggaaat ggatatgacc cgcttctggc 300
cactagaaag gagagaaggg atcgccgagg tcctcctcaa gaatgtggac attaaaacta 360
agttccactg ccctgagaaa tatgaaaacg aggaacgtct tgctgatcac aaggcacagt 420
gtagcttcag gcctgtcact tggccgaacg a 451

<210> 7521

<211> 422

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-025-Q1-E1-H6

<400> 7521

cgggtctcac ttgagcggta gcacggccgt taacatcaac ggcgagatcg gtcctttctt 60
ccccacccta tgtgggggttc aacaaggcga ccccttctcc ccgttcctat tcaacatggc 120
cgtggacgcc cttgccacca tcctggataa ggcgaaggct gctagccata ttcgtggaat 180
cacccccacc ttgccggagg gtccgggatt tcctcctct agtatgccga cgacaccatc 240
atcatggctc aaggctcgga ggcgaacatt tccaacctca agttcctcct cctctacttc 300
caacaaatgt ctggccttaa gattaacttt gacaagagt atgttatggg gatgggcatg 360
aggagtgtct agccattgcc aaccggctta actgccgcct gggctccttt cccatgacct 420
ac 422

<210> 7522

<211> 433

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-025-Q1-E1-H7

<400> 7522

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atggtgcggc atgtctttaa cctaaatggc atcaaaggag caattgctgc ggctcgaaag 120

ttgcctgata ttgctgttca agctgatgtt gttagtactc tcaagggaaa acttggctctt 180
 ttcaacctag atattttctc aagccttctg cctgttcttg ccgggttact gaacagcaaa 240
 actgaaaggc atgctattgt tgctttggag atgttattgg atcttataaa gatTTTTTgga 300
 ccggttattc attcaacatt gtcaagtagt tcacctgttg gagtagatct tcaagctgaa 360
 cagaggttgc agcgttgac ccggtgtttt aaccatttgc aaaagattgt gcaagctcta 420
 caccggtga tga 433

<210> 7523
 <211> 325
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-025-Q1-E1-H8
 <400> 7523

ccgcatttat catggtagtc aatacgcgga tcgccaagct aaagatagaa cgggatcgac 60
 atagtatcat aggcagcaga tgagtaatcg ctgaggaccc gaacttacat gatatcgcg 120
 tgcaatctga gattgctagt actcacagt taggattagc cttgtcagcc tacagagttt 180
 cgcattggcat ccgcctattc ttggggagac acatggaacc acagcttatg cagatagcac 240
 tgttgcctag gctatggat ggccctgtaa agcaactcct cgtacggcta gtccatcagc 300
 aattttacgt ggttcaactg ttgga 325

<210> 7524
 <211> 211
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-026-Q1-E1-A11
 <400> 7524

gggcgacagt ataatcacia gaaatatata tataggataa taaggtgggtg tattgccgcc 60
 atgtccgtta acctgagggtt ggttccacca aaaaaaacccg ttacccccgc caaaatttt 120
 ccgaccaag ggaaaataat aacaacggga aaaccacca aaatcaaacc ggcttgtgaa 180
 ataaatgggtt gcgccccggt tttttgtgc c 211

<210> 7525
 <211> 435
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: LIB104-026-Q1-E1-A2

 <400> 7525

 ggtcgtaatt acgggtccac gggcatcacg gccaaagagac cgtggaacgg agacggcgtc 60
 ctgggtccac aaggctcctc cgggggggttg gtttccccta acggaacccc ggctgggaac 120
 cccttcgccc ggggcccggg tttttacaaa ttaagggtccc cgtcggtcct ggaagccctg 180
 cctttccgct ggaaccgcga catacacgcg tgcttaaagg tgagcgacgg ccagctgcgc 240
 tacgttcaga tccatggtgc atctgagaag ccgggtggtca gcatctggac gctgtcatcc 300
 agtgattcgt caaaggcgac atggggaagc ccgaccagcc tccccttgga tgtggttttg 360
 ggaagacagc aactacagtg atgatccccg gttcgtccgg gggtcgtccc tgctttgcgc 420
 ctggtccacc ccatg 435

<210> 7526
 <211> 111
 <212> DNA
 <213> Triticum aestivum

 <223> unsure at all n locations
 <223> Clone ID: LIB104-026-Q1-E1-A3

 <400> 7526

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 ggggttgtgg cagtgtcccc gngagttgag ctcccagagg gttgtcgtca t 111

<210> 7527
 <211> 462
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: LIB104-026-Q1-E1-A5

 <400> 7527

 cggggccacg gatacagaag acgaacaggt gagtggagag aaaaggatgg gagacgaaat 60
 atctgtacag cttatcatgt tctctgtccc cagttcccta tctgaccacc ccagcttgca 120

acagtagcaa attgatgcct gtcgtgtcca gttgagcaga tgagagatca aatgagcatt 180
 tcccgtggcc tctataacaa ctagcaagta aggattcatc gacttttact tctttttgtg 240
 gatccaaacc atgatgtctt tattgtatac taacatgatt tttctgccgt agatgactcc 300
 accgtgcttg atgtaccgga cacattgctt gatcacactc attgtattta ccttttccct 360
 aatgctttat tatgtttttc ttgagaccaa gctaagtcac ttaagctgat gttttgccag 420
 atcgtctttt gggttaatcat ctcatgcaca tatcaacaaa aa 462

<210> 7528
 <211> 424
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-026-Q1-E1-A6

<400> 7528

ttcgcgggtc cacgggcaga ttggcatgag ccctgccgag gcgggcgagt acaacaaata 60
 tatcattcgt gaggttagtt ccgggtcagg cacaccgctc atgccaaagc ggaagttcga 120
 gacgtacata ttcacgtctt tcaacgagga cctcaagccc gggcccgtgg ccgagcgcaa 180
 tttcgggatg ttccagccag acttcacgcc gatgtatgac attggcatca tgaaagatcc 240
 ggtcaaaaaca acatcgggcg cagcgctcggc cgtcccagcg gtgccgcaga aagtgcacgc 300
 aatgcctatg gtcgctgctg ctaatgcctt ggaagctgga gtgcctacaa aggccaacga 360
 ctccaacaac gcctaggcat ccacgcaagc atcgtcgcca ggcaacaaat ccttgaccga 420
 tgac 424

<210> 7529
 <211> 340
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-026-Q1-E1-A7

<400> 7529

gggtccacgg ggagcacaga aaggacggcg agcacaagga gggcatgatg gagaagatca 60
 aggacaagat cagcggcgac ggccacggcg acggcaagaa ggacggcgac cacaaggaga 120
 agaaggacaa gaagaagaag aaggacaaga agcacggcga gggccacaag gacgacgacg 180

accaccacaa caccatcatc gcatccatt agcattctac cattttcctc ggagagaagt 240
 agccagaaac agcagcgcca tggccggcat catgcacaag atcgaggaga agctccacat 300
 ggggtggcggc agcgacgagc acaagaagga cgatgagcac 340

<210> 7530
 <211> 313
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-026-Q1-E1-A8
 <400> 7530

cggggagAAC agaaaggact gtgagcacia ggagggcatg atggagaata tcaatgataa 60
 gatcagcggc gacggccact gcgacggcaa taaggacggc gaccataagg acatgaatga 120
 caagacgatt aagaaggaca ctaagcacgg cgaggggtcac aaggacgact atgaccacca 180
 caccaccatc atctcatccc attatcattc taccattttc ctcggcgtga agtaaccata 240
 atcagcagcg ccatggccgg catcatgcac atgatcgagg agaagctcca catgggtggc 300
 ggcagcgacg atc 313

<210> 7531
 <211> 370
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-026-Q1-E1-A9
 <400> 7531

gggtctgcaa ctatacagct tcgtatgtag ttgcagatc actacgtcat tctgtacatg 60
 ctgcttccat gctccacttg gagatattcc aaatgggttg ttccactata cgtatccggt 120
 ttgctactta gagtcactca gataggtgtc aaagcttgca tcgacgcaac tctttacgtc 180
 atcctcatta tcagctccat atccgagaag catatccgta ttctctaat gatagttttg 240
 accgctatct ggtgatctac tccttgataa cctttgtatc ctcttgccag atatgtatca 300
 gggcacacat caagtgcggt acttataata ccgtagagcc gatgtctgaa gcataaggga 360
 ctaccttcgt 370

<210> 7532

<211> 366
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: LIB104-026-Q1-E1-B1

 <400> 7532

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gggtccacggg cccaatggtg catgaatcag atatccagca cggtgtgtca tcatggactg   60
gcattccagt ggagaaagtc tcgacagacg aatctgataa acttcttaag atggaagaga  120
cattgcataa gcgtgtcatc ggccaagatg aggctgtgaa agcaataagc cggtccgttc   180
gccgtgctcg tgtgggcctc aagagcccca acagaccaat tgcgagcttc atttttgcag  240
gtcccactgg tgttgggaaa tcagagcttg caaagacgct ggcatcatat tacttcggct   300
ctgaagaagc catgatccgg ctggatatga gtgagttcat ggagaggcac actgtgtcca   360
agttga                                                    366
  
```

<210> 7533
 <211> 396
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: LIB104-026-Q1-E1-B10

 <400> 7533

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gggtcaattc caacgagtct gtaactgcag cgaggcgagc gtctgggaca tgcattagta   60
catgcgatta gataatcagt aacacaaacc cacaaacggc aacctgccct tgattagata  120
atgccatata aaatccgatg gatggaacaa caaggtagct gcagctgcat gcatgtaaaa  180
ttgagtccat atccacgagt aaaggctgct gcatgcatat ggcagcaagc cagccagcca  240
gtgtacgtgc agctgcagcg aggcaaaggg cctggatggc tccggcactc ttcggccttc   300
ccgaagtcga agatcacttt tcgggtcaaca gtaagttgaa gttactatth tcagcccagc  360
tgaccacttt tccgccgatt ggaggctaaa aagctc                                                    396
  
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<210> 7534
 <211> 312
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: LIB104-026-Q1-E1-B11

<400> 7534

ggggagaagg gcattggaga tggaacggtc agctatggaa tggatgatgc tgatgacata 60
tacatgcggg catggactgg caccattatt ggccctcaca atactgtcca tgaggggtcgc 120
atctaccacc tgaagctgtt ctgtgacaag gactaccccg agaaggcacc atctgtttaga 180
tttcattcaa gaatcaacat ggcttgtgtt aatcacgaga ccggggcggt tgacccgaag 240
aagttcagtg tgctggcgaa ctggcagcga gagtacacta tggaacatgt cttgaccag 300
ctgaagaaag at 312

<210> 7535

<211> 392

<212> DNA

<213> Triticum aestivum

<223> unsure at all n locations

<223> Clone ID: LIB104-026-Q1-E1-B12

<400> 7535

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tagtggcttc tctcaagata gcataactat tacgggtgggt gaacanatta ctgccgagca 120
attgatagan aagcacgtag ttatgatgat atctaaggca atgatcatga atataggcat 180
cacgtccgtg acanagtaga canaacgatt ctgcatctac tactattact ccacacatcg 240
accgctatcc agcatgcac tagagtatta agttcataag aacggagtaa cgcattagggc 300
aagatgacat aatgtaaaag gataaactca ngcaatatga tataaacccc atctttttat 360
cctcgattgc aacaatacaa tacgtgttgt tt 392

<210> 7536

<211> 336

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-026-Q1-E1-B2

<400> 7536

ggggccacgg ggtttaccac aatcatcctt gctgtacaca ccttttggga taagcctatt 60
tgataagaat ttgcagaaaa acccaagtgc ctcaattata acctttgggc ctgaaaattt 120
tggcccaatg cttcaattat atgtttttaga gcacgatggg ggtgtcttaa ttttgaagaa 180

attgctagtc tctcatgatt cacttatatc attttgagag tcttttagaa cagcatggta 240
 tttgcttttg ttacaaagt ggctcctagaa tgatgagcat ccaagttggg tataataaaa 300
 actatcataa ggaagtaa tggatgctat gattaa 336

<210> 7537
 <211> 360
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-026-Q1-E1-B3
 <400> 7537

ggccgggaat cacttataga cttctacact agctctggga agcgaaagcc agaccaagtt 60
 attattttca gggatggagt tagcgaaagc cagtttactc aagtataaaa cattgagctt 120
 gagcagatca ttgagggcatg caagtgcctt gacgacaagt gggagcccaa gttcacggcc 180
 attgtcgctc agaaaaacat cataccaggt tttccagac aaactcgcca gaaaatgttc 240
 ctctggcac tatggtggat aaacaagtgt gccatcccaa gaactttgac ttctacatgt 300
 gcgcgcatgc tgggatgatt ggcacgtcga ggccaacgca ttaccatgtt ctgcatgatg 360

<210> 7538
 <211> 328
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-026-Q1-E1-B4
 <400> 7538

gggtccacgg gttgatcctg atgaaaatca gaaacttttg aaccagtaa attagttttt 60
 ttaattcaca taaacgtgat tttgatcgta ttctttttga tctggattgg taaaacatt 120
 tctaaggtct tccaaatttg gaaaaatttt tggagttcca gaagtatgag tttgatgcaa 180
 atggcaaaaa acggtccggt tttgacaagg tccccctttc aaggggtggg tgccataatt 240
 gaagcaacca aggctaataa aataatttat aaaccataga taagttggga tacaatatgg 300
 ttaacacaca aataaataaa gaaagagt 328

<210> 7539
 <211> 457

<212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-026-Q1-E1-B5
 <400> 7539

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gggtccacta ggccgtgtca gatcatcacg tgagacggac tagtcatcgt cgggtgaacat   60
tctcatgttg atcgtatctt ccatacgact cgtgttcgac ctttcggtct ccgtgttccg   120
aggccatgtc tgcacatgct aggtcgtca agttaaccct aagtgttttt gctgtgtaaa   180
actgtcttac acccgttgta tgtgaacgta agaatccatc acacccgatc atcatgtggt   240
gcttagaagc gacgaactgt agcaacggcg cacagttagg ggagaacact tcttgaaatt   300
tttgtaaggg atcatcttat ttactactgt cgtcctaagt aaacaagatg cataaacata   360
ataaacatca catgcaatta tatagttgtg acatgatatg gccaatatca tatagctcca   420
ttgatcttca tcttcggggc tcctgatca tcttgtc                               457
  
```

<210> 7540
 <211> 427
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-026-Q1-E1-B6
 <400> 7540

```

ttcgccggtc cacgggacga caagacgccg gatgtcccgg agcaggccga tgcgtatgga   60
cgtgagttgg tggatgaatga agggcctgtt acaatagagg gtaagccgat ggatgtccat   120
cccacaatgg aagatggcaa tgtgcaggat gttgccgtgg aggcagaaaa tactactcgg   180
gcttcataaa tcagaagagt ggatgcaaga tcagcaattg gtacaaaaat tctctgtgct   240
tggtgtccat atgggtgaag aataaagaac ttagaggtgg ttgtagaatg tgacgaacag   300
cagtgtgctg tgcgcctctg cactcgtagc taagtgagtg accatgttgt aagatggatt   360
tctggacaaa tcaggtgtaa agatgtaaga ttcccaaaca atctgtacgt atatatatac   420
ccagact                                           427
  
```

<210> 7541
 <211> 373
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-026-Q1-E1-B7

<400> 7541

tgacgggcct caagctctac tgatgctatt atggctgaag cagaacttac cttaaagtct 60
cctgctgatg ttgacgcaga tctactgaag gatgatgatg atgctcagct actacagcaa 120
gcactcgcta tgtcaatgga tgaggggtgct tcaggagctg caaccgtggc tgatgctgct 180
atggcagaag ctgctgcata tgaccaggat ttggcattgg ctcttcaa at gtctgtccat 240
gatgcagatg cggctggcca atctgatatg agcaaagtgt ttgaagacag atcattttgtg 300
acatccatcc ttaattcgct tcctgggtgtt gggcccaatg acccatctgt gacagattca 360
ctggcatctt tgc 373

<210> 7542

<211> 312

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-026-Q1-E1-B8

<400> 7542

ccacggggag ccataaaaaa catgctcagt ctccgctggc cgggtgtccaa gagcaaccca 60
agccaagaac caacctgccg ggggcaatgg aaacaattta agttaatggg aaattgtggg 120
cgctcacagg gtcaagggtta cctgcacaat gctagccacg tacttactta cagtgcattgt 180
gccatacata caacacatgg acacttacac aaatggcaca tgtgagacac tcccggggggc 240
aggcacccta aactatgtgt acaatttacc tgtgggggctt acgtgctttt atgaggaggt 300
aaaccctgt gt 312

<210> 7543

<211> 434

<212> DNA

<213> Triticum aestivum

<223> unsure at all n locations

<223> Clone ID: LIB104-026-Q1-E1-B9

<400> 7543

attccgggtc caatggaaaa tggaatcagg agtggcaaga gcctaagctt ggggatgccc 60

aatgcacccc aaggtaatat taaaggacaa ccaaaagcct aagcttgagg atgcccaga 120
 angcatcccc tctttcgtct ccgttcacg gtaactttac atggagctat aattttattc 180
 accacatgat atgtgttttg cttggagcgt ctttttttgc ttgttggttg aataatatcc 240
 caaaatctga aattcttaaa tgtagagag tcttcgcaa gttacataat tatttagcta 300
 ctcatgggtc ttcacttata tctttcggag tagtttggtg tttgctctag tgcttcactt 360
 atatatTTTT agagcacgac ggtgggttta ttttgaagaa atagatgaac tatcgtgctt 420
 cacttatatt attt 434

<210> 7544
 <211> 387
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-026-Q1-E1-C1
 <400> 7544

ttcacgggtc cacggcgagt gcgacaaagg tgccatggcc gccatagccc agtctgcgcc 60
 ggattctgtg ctgatgacat tggcggagtt tgagacggca agagaggtgt ggaatgcact 120
 caaagagatg aggattgaat aaaatcgtgt cacgaaggct cgggcacaag tgctgaagcg 180
 ccaatttcac aagttgcaga tggagaaaac tgaatcgggtg aacgactatg ccatgcgtct 240
 gactactttg gtgggagaga tccacgcgct tggtgcaaaag ctcgacgaga ccgagattgt 300
 ggagaagttt ttcagttcgg tgactgataa attcacgtac atcatcggca cgctcgagca 360
 gctttacgac atcgacgaca tgaccat 387

<210> 7545
 <211> 168
 <212> DNA
 <213> Triticum aestivum
 <223> unsure at all n locations
 <223> Clone ID: LIB104-026-Q1-E1-C10
 <400> 7545

gggacggggc gagaacgcag nggactcgga cctgcagctg gagcggatta acgtctacta 60
 caacgaagcc aaccggggac cgttcgtgcc ccgcgccgtg ctcaaggacc tccaaccccg 120
 gaacatggac tccgtgcgct ccggggccct ccggcaaatt ttccgccc 168

<210> 7546
 <211> 278
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: LIB104-026-Q1-E1-C12

 <400> 7546

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ggggctcagt ttatgaaata gaggtgaata atattttgag cggatatactt tcattgtcaa 60
cataacaaca aaaaaatggc aaaaccttca aggcaaaaaa cataaaaaggc gggtccaaac 120
caaaatggta aatttaaggc ccccccttca acaacaacc atcaaccaat ggcttgccca 180
aaacaatgat tgcctcaaac taacaaaatt cccgggggga gttttgtttg caattatttt 240
gatttagttt gcataaagca tggaactggg catcccg 278
  
```

<210> 7547
 <211> 439
 <212> DNA
 <213> Triticum aestivum

 <223> unsure at all n locations
 <223> Clone ID: LIB104-026-Q1-E1-C2

 <400> 7547

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gggtccacgg cggaagaatt agcaatgcta aattggtgag aagagagcga gaggaagatg 60
atgaggcgag atggaaaagg ttgattttat aactggatgc taggcttaaa tcagaggaca 120
tggtancgga agaacaagat gtcattttct gaataatact gaaggctactt tcagtaaag 180
ttctgcaaata aagtgcattc agaacgccag gatgtgtggg gacaaaatgt actctattgc 240
ttcacatggg aatggcttca gttccgctac tgtcacgagc ctgaggttct gatcctacac 300
ctcggtgct cgccagaag ctaagtcata ccaatttatg ttagttcttg agattttttt 360
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aacatacata tgttttttt 439
  
```

<210> 7548
 <211> 444
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-026-Q1-E1-C4

<400> 7548

gggtccacgg gacgaggaga tatcgggacg gagagatccg gcatgggcaa ggctgtttgg 60
ttgggtgggat ggggtgatct tattgtgaaa atgttctgat cctatgggtgg aagggtgaaa 120
gggtgtgtat tatattagtc tttgcttttt agtttaccac aatcatcctt tctgtacaca 180
ccttttggga gaagcctatt tgattagaat ttgctacaat actctatatg cttcacttat 240
atcttttgag cttgatagtt ttttctctag tgcttcactt atatttttta gagcacgggtg 300
gtgtcttaat tttgaagaaa ttgctagtct ctcatgctta acttatatta ttttgggagt 360
cttttagaac agcatgggat ttgctatggg cataaagttt ggtccaaaat gatgagcatc 420
caagtgggta taataaaaac tatc 444

<210> 7549

<211> 277

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-026-Q1-E1-C8

<400> 7549

tcataatacg aatctgtact ctcttgcaaa ttttaatttaa cggctgcgac gattacatgt 60
ctggatagaa catctgacga ctcatctcag gttgaactgc cgaggagagc aattgtttct 120
tggcctgact gtttagatac aacttacgac gttgctgtct cgcattgtccc tattgtgtct 180
tcattcccg gcaattgtcgt tttcaattag ctgtgatcat cgtttgctct ccttgtctcc 240
tcacgcctct gtgcagcct gctctcctga tctgttt 277

<210> 7550

<211> 392

<212> DNA

<213> Triticum aestivum

<223> unsure at all n locations

<223> Clone ID: LIB104-026-Q1-E1-C9

<400> 7550

cggggcgaaa ggacacatat tatggttaca tagtggacat atgggaactt gactacggag 60
tagattttta ggtccctttg ttttaagtga attgggtcaa tctgtcatga ggcgggggtac 120

aggtagaccc acagtacgga atgacaacag tggatctgaa aaatcttggg tacactgacg 180
aaccgttcat cctacgcaat gatgtggcac aagttatcta tgtgaaggac atgtctacca 240
gactgaggaa aagaaaaaat aaggaagcga atacatcata cgatgagcca aagtgccaca 300
tagttctttc aagaaaaagg gacatcctgn gagtggaggg caagacagac atgtctgaag 360
agtatggaat ctttcatgaa attcctccct tc 392

<210> 7551
<211> 370
<212> DNA
<213> Triticum aestivum
<223> unsure at all n locations
<223> Clone ID: LIB104-026-Q1-E1-D10

<400> 7551
gggtctgtcc caacagtttg tcggcgctt catangcgga caaaagcctc atggccagga 60
gagtgatctt catctgctcg ccataagga aggagagccc ctgcgcaagt acattcagag 120
attcagcagt gtgcagcaca acatcccaaa cgtccaccct gccgcggtga ttagcgcgtt 180
ccatcaaaac gtgcgaaacc gcaggatgcg ggacgaaatg gcgatgtgca agattaagga 240
cgtcagtgag ttatatgcac tggccgacaa gtgtgcacgt gctgaggaag gaaggagacc 300
ccccggagaa aaatgtagga gcgggaggat ctaacattga agatgctccc ccggcaagga 360
aaaaccggcg 370

<210> 7552
<211> 174
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-026-Q1-E1-D11

<400> 7552
cagcgacaag gggggccatc aaggaggat gtataaagcc ggaaaccgtc ccgcccacca 60
gaaagccgtg tttctgcctg ccgtgtttgt ttcacgtgt ttgtgtctgt ctgtcgtcgt 120
cgtcttcgtg attttgaact ttctctagac tgaattttgt acccgattta aatt 174

<210> 7553

<211> 299
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: LIB104-026-Q1-E1-D12

 <400> .7553

 gtccgacatt cacgggtgca ccgcgacgga acaatcacct acggcgggcta ctccagcatg 60
 gtgggtgtgc acgagcgctt cgtgggtccg ttcccggacg ccatgccgct ggacaagggc 120
 gcgcccctgc tgtgcgccgg catcacctg tacaccccca tgaagtacca cgggctgaac 180
 gctcccggga tgcacctcgg cgtgctgggc ctgggcgggc tcggtcacgt cgccgtcaag 240
 ttccggaagg ccttcgggat gaacgtgacg gtgatcagct catcgccggg gaagaagca 299

<210> 7554
 <211> 370
 <212> DNA
 <213> Triticum aestivum

 <223> unsure at all n locations
 <223> Clone ID: LIB104-026-Q1-E1-D3

 <400> 7554

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 ttgcttccag ccccatcacg accacctcct cctacttcta cggcaaggcc attgccaggg 120
 cggcgaggct ggcgctgac gccgaggagg tcgggtgccc cgacgtcatc cccgcgggtgc 180
 atcggttctt gaaggccacc gtcacgccgt ggctggacgg cagcttccag gggaatgggt 240
 tcctgtatga tcccaaattg ggcggccttg tcaccaagca ngggctgcan gactccggcg 300
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 ccattgctgt 370

<210> 7555
 <211> 358
 <212> DNA
 <213> Triticum aestivum

 <223> unsure at all n locations
 <223> Clone ID: LIB104-026-Q1-E1-D4

 <400> 7555

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tccggttcaa aaaaggcgtc cctacggtag tgatatagtg aaaagttccc atttttatcc 180
tcagcctatg caaaggcagc catttatcat agtgaatggg ctcccagtg aatcaccgcc 240
aatcgaaggg cagtgcgtg cccaactgga aatggacaag tcatgtcaag gcagcanggc 300
tgcaataaat actctcccct ccgagtcac tgggtctcaga ggttctttat cctctgaa 358

<210> 7556
<211> 442
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-026-Q1-E1-D6

<400> 7556

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agacgctcgt cgccggcgag gtcacccgc tcagactggg atcccaactg agatatacag 180
ctccatcact ccagttcgac taatcttttt tagtcgatcg atcatctgat ctaataccat 240
atatagatcg gaaaatataa tgtgtgtgtg aagacgcac atagtgcgtgc gtgggtgtcgg 300
tgtatgtact ataactgatg aagcaataac cgctctgtga tcgatcgagt tggctcatct 360
tagtgccata cgtagcacgg tgagacgtcg cctgtgacct ccggtgatta gtgtcgtcct 420
ccaacgtgta cccagtgcca tt 442

<210> 7557
<211> 79
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-026-Q1-E1-D7

<400> 7557

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ctaaatctga gacgctttt 79

<210> 7558

<211> 353
 <212> DNA
 <213> Triticum aestivum

<223> unsure at all n locations
 <223> Clone ID: LIB104-026-Q1-E1-E10

<400> 7558

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 tgtcaccgcg gtcggagaag aacctggtgg aggttctcct cggcctccac ggaaatgaag 120
 actttggctt ccccatcacc cgctccacgg tcaaagcatt tatcttgaac atatatgcgg 180
 gtgggacaga cacatctcca tggatatgggt cacggcagag ctgatgatga antcaaaggt 240
 aatcaggaag ctgcaagaaa agatcagggc cggcggtccg cgagatcaat ctccggacga 300
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<210> 7559
 <211> 431
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-026-Q1-E1-E11

<400> 7559

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 aagtgttatc agaaatgaga tatcatgtgt gaagatttat ggctttcaag ccaaattggtc 120
 aatcttatgg ccagattcat ggcatagttt gttcaaata tctcatatta tgcacaaggg 180
 tgcattcttg aaaggcaaac aatgttgtct aaggaggttt tcattttctt tggacaaaaa 240
 attcattttt tattttttcga atgccccaaa tgagtttttt tttgtgaagg acctaccata 300
 tatttgtaac aaaattgggc caaataaatt ttccaaaata ctatgccata tttgattcac 360
 aattgacaaa atagttgggt atcaaaagtt ttgatccacc tctgatgaaa aagacaaaat 420
 tccgccgatt c 431

<210> 7560
 <211> 356
 <212> DNA
 <213> Triticum aestivum

<223> unsure at all n locations

<223> Clone ID: LIB104-026-Q1-E1-E3

<400> 7560

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gacgtcgcca aggtcttctg aatcagttca tttcacctca gccgtccgat ccaggagccg 180
atccatctac gtacggcttc gtatatcaat ttcattgcaac tacctactcc ggtcccgatc 240
cagcctcagc ttcacctgaa gccggcccta attttgtttg atcaattttt tgctactagt 300
agtaactagt gatgatcact gttgcaccaa ttantttatt tatatcgta caactt 356

<210> 7561

<211> 448

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-026-Q1-E1-E5

<400> 7561

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ttgctgacta caacatccag gagtccaccc tccacctcgt gctaaggctc cgtggtggta 180
tgcagatttt tgtcaagaca ctgacaggca agaccatcac cttggaggtc gagtctcgg 240
acaccattga caatgtcaag gctaagatct aggacaagga gggcatcccc ccggaccagc 300
agcgtctgat cttcgcgggc aagcagcttg aggatggccg cactcttgct gattacaaca 360
tccagaagga gttccacctc caccttgctc tccgcctctg ttgtggcatg cagatctttg 420
tcaagaccct caccggcaag actatcac 448

<210> 7562

<211> 448

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-026-Q1-E1-E6

<400> 7562

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 ctgttcagtc ggccccacc atcgaggcca tccaagctac atgcgccaag acaatacagc 180
 cagactcttg caaacacgtc ctgctcgcca acatggccgc cggctcaccg gaggtgaaca 240
 gtgtcaccct aatgtccctg caagtcgcg caaagctcgc caagatggcc aacggcttcg 300
 ccaatgccat gtcaccacg gaccgcacc ccgccaatg cctcgcatac tgcacgaag 360
 accttcatag ggtggccaac gcatttgacg ggattccagt ggaggcggtt aaacctggcg 420
 acgaggccgg ggtgctgtcc ttcagctc 448

<210> 7563
 <211> 454
 <212> DNA
 <213> Triticum aestivum

<223> unsure at all n locations
 <223> Clone ID: LIB104-026-Q1-E1-E7

<400> 7563

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 ccgactcgtg cttttttgga ctccgctttt gcaggatcct gtgaggcatc gaattctttg 120
 gcaagtctct tcttgctagt gttgtacgcg ttttattcct tcgcccgaca tgctttcgtg 180
 ataaaagaat catagcaaca tagcgtgagg ttccataggt tgatgagcct gatcagtcgt 240
 gtaagctatt tactacagcc gtcttagatg gccccaggta tcctcttcgg cttgatcttt 300
 cctttgcttc gatcgccaac ttgcattcc ttattccact attgcgatat ctttgcctg 360
 gacaaagacc aagagctggg gcaggtgaaa gaatagctta tggggctgga gtcaaaggag 420
 ctttcataga catagaaatc ataatanaaa gagc 454

<210> 7564
 <211> 456
 <212> DNA
 <213> Triticum aestivum

<223> unsure at all n locations
 <223> Clone ID: LIB104-026-Q1-E1-E9

<400> 7564

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tcaaggagtt gactacgatg agaccttctc acccgtagcg atgcttaagt ctgtccgaat 120
catgttagct attgccgcat tttatgatta tgaaatttgg ccaatggacg taaagactgc 180
attcctgaat ggatttctgg aagaagagtt gtgtatgatg caacctgaag gtttcatcga 240
ttcaaagggg gctaaccaag tgtgcaagct ccagcgatcc atttatggac tgggtgcaagc 300
ctctccgagt ttggaataaa cttttttata gtgtgatcan agcatatggg tttatacgga 360
cttttgagga agcctgtatt tacaagaaag tgagtgggag ctctgtagca tttctaagct 420
tatatgtgga taacatattg ttgaatggaa atgata 456

<210> 7565
<211> 424
<212> DNA
<213> Triticum aestivum
<223> unsure at all n locations
<223> Clone ID: LIB104-026-Q1-E1-F10
<400> 7565

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gttgtgtaaa cgtcttattg catctggcgc gcctttgaat gccttctctt gagtggaggt 120
tcggggcgcg cgatgggttaa ctctaccaa cctccccctt aggagcatgc atagtagtac 180
ttttcttcga gggctaataa aactcttgca ataagtatat gagttcttta tgactaatgt 240
tgagtccatg gattatacac gctttttacc tttccatcat tgctagcctc ttcggtaccg 300
tgcattgccc tttctcacct tgagagttgg tgcanaacttc ggcggtgcat caaaaccccg 360
tgatacgata acctccatca cacataaacc tccgtatacc ttcctaaaaa cagccaccat 420
acat 424

<210> 7566
<211> 424
<212> DNA
<213> Triticum aestivum
<223> Clone ID: LIB104-026-Q1-E1-F12
<400> 7566

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cctattcagg ttccatccgc aggaagtccg gccgaggttc ccataatggc cccgaacgat 120

gtgaacaggg ttcccgaat acctaacggg tattcggtac accgtgcaat gtacctaccg 180
catcacagcc caccctacg gtcagcgctg tccacggcct ccagtagct acaaacacca 240
gaaactactt gcaactcctg aacagagagc tacgggtgaat aagaagtcga gcgggggtcat 300
atttcagggc ccaatgcatg gtagtagctg tatcttaaata cacatataca gatctcagtg 360
cttaaggctg gcttcaatga aacaaccac catgtaatcc tacatggcct ctcatcgata 420
cctt 424

<210> 7567
<211> 389
<212> DNA
<213> Triticum aestivum
<223> Clone ID: LIB104-026-Q1-E1-F3
<400> 7567

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cggttcctc gacttcagcg agttcatctc cttctgcaac gccaacccgg ggctcatgaa 120
ggacgtcgcc aaggctcttct gaatcagttc atttcacctc agccgtccga tccaggagcc 180
gatccatcta cgtacggctt cgtatatcaa tttcatgcaa ctacctactc cgggtcccgat 240
ccagcctcag cttcacctga ggccggccct aattttgttt gatcaatttt tttgctacta 300
gtagtaacta gtgatgatca ctgttgacc atttatttat tttatatcgt cacaactttc 360
cagtgggtcc tttccttctt caacctttt 389

<210> 7568
<211> 420
<212> DNA
<213> Triticum aestivum
<223> Clone ID: LIB104-026-Q1-E1-F5
<400> 7568

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aataaacaaa gaaatccaga tccaaaagaa caggaataaa aaccaagttt caaaaatatg 120
acgcggccga tctaaaggat gaaccctaaa ttactcgtgc atgaaacttc aaaccctcc 180
tatagggtac ccaattatta aattaaccga ccttcattta aaaacatcga gtcgggaaaa 240

cccttgacat taccacttt atcccccttg aaaaaaatca ccttttggca atatgaagtc 300
 gtactaaatg ggcccgacg gttcacctta ccgaaaaatt cccctactaa atcggttaatt 360
 gggatctccc tgctaaaggt caatttcgca cgaagggtgt agcggtttacg ccaacattga 420

<210> 7569
 <211> 458
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-026-Q1-E1-F8
 <400> 7569

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 acgacatgga gctgaacacc gctgcaacca tgggtggcgcc ccctctgacc aagcaaaaaa 120
 atttgagata tctcatatat tggcaaagct aatgcctgag agggagctac ccaaacaagc 180
 atgctttata tttgggggtgt gtaggctgga aggatcattg gtaattgatc ctatcaaagg 240
 aaggcgcgat ctccagcctg aaggaatggc tgattgattt agctatagga agcaatcctg 300
 ttctgcgatt gattgctgga atcatattta tccaagagca agactacaca cgatgctgtc 360
 aagcacacac acacaacgga ggaactctgg acatttcctc atcttctgac attggaagag 420
 gatgcactaa gttataaagt aataaagtaa gacatgga 458

<210> 7570
 <211> 250
 <212> DNA
 <213> Triticum aestivum
 <223> unsure at all n locations
 <223> Clone ID: LIB104-026-Q1-E1-F9
 <400> 7570

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 ccaccaccaa tccnaattcc ttgcatatta agtttgtttt caggatccat ctactttccc 120
 attcgtgttt ccttgtctga gtacgtttct gattccagca atcttttgca gtccatagaa 180
 taagttgggt tccaaaatca aatacgaatc cggaaacccc cctccgttta agcccaaaat 240
 tttccgaaaa 250

<210> 7571
 <211> 351
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: LIB104-026-Q1-E1-G1

 <400> 7571

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 taagaaaatt agacaagtat ctatctcaag taagaatttt tttctttcag aaagaagata 120
 agaacaagag gctcaccacg gtggtgccgg cgacgagatc agcgcgggcg atcgacggcg 180
 gttgtcgtgg ttttgtcacg gcagatgtcc tagagaaagg acttagtcgt ggagccatcg 240
 ctacgggtta gcttaaaggg gttaaagcgg acaagggacg caagagagtt atatactagt 300
 tcggccccctt acgatgaagg taaaagccta cgtctagttg tgatggaatt g 351

<210> 7572
 <211> 414
 <212> DNA
 <213> Triticum aestivum

 <223> unsure at all n locations
 <223> Clone ID: LIB104-026-Q1-E1-G10

 <400> 7572

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 aggagcccct cgtcgctcgg cgacgagaac agatgatcgg cacaggccgg cggctcctgc 120
 atgcatgcga cgccctggct tcgtctacgg ctttcttgat tcttgctcgg gtaggcttcc 180
 ttcgttttcc tcggagggaa accgatgtan aggaggaaat gggagcttg tgtgtcgtgt 240
 ttgatccaca ccgcattctt gttccacttc caccttatat ccactatttt tttcttcac 300
 cttttcttgt tgggtgtacg tcctctacaa gggaaatgaa cacttccctt ctttgttgcc 360
 attgtatgca actaaatata tataccgagt gatgtgattg gggataaaaa aaca 414

<210> 7573
 <211> 474
 <212> DNA
 <213> Triticum aestivum

 <223> unsure at all n locations

<223> Clone ID: LIB104-026-Q1-E1-G11

<400> 7573

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acaatgtgaa caatgtggca tgtaccctga accctaacc cccccacac acacacaaaa 180
ccgtaaaaac attcaaaatt ttgccccaca tggaaacat tatgcatgca ttctctatgg 240
ggatcatggga tgccatgaag aaagtgtggg attatacacg caagtacgat ctctgacacg 300
cgcatttccg gcctagcatg tcaacacccc gaaagcccc ttgaggtata gaccgatgtt 360
ttgaccagtc agtccagaaa actagctttg tttgtgcaag agatcatgtg tgccaaaact 420
gaagtgattt ggangtgtcc ananaatcat cgcattccgg aggggccatt tggt 474

<210> 7574

<211> 304

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-026-Q1-E1-G2

<400> 7574

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tgatcaacat gtcactgaac agaaacttgc tgaggttttc tcaaactgtg gtcaagtgg 180
agattgccgt atctgtggtg atccaaactc agtgatgcgt tttgctttta tgcagttcgc 240
tgatgatgtc ggtgcaagag cagctttaac gcttggtgga accattcttg gtttttatcc 300
cgtc 304

<210> 7575

<211> 388

<212> DNA

<213> Triticum aestivum

<223> unsure at all n locations

<223> Clone ID: LIB104-026-Q1-E1-G3

<400> 7575

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cgaggagaa ggactacgat ggcgcggagc agccggagcg gcggcgggtc tcttccgccc 120
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 aggaggcgga gtgccgccac ggcgcggaga aggaggctga gtgccctgat cactcgccgg 240
 aggaggaggc ggagtaccgc cacgcgccgg agaaggaggc tgagtgcctt gatcactcgc 300
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 ctcttccgc cataggcatg gagtcttc 388

<210> 7576
 <211> 394
 <212> DNA
 <213> Triticum aestivum
 <223> unsure at all n locations
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 <400> 7576

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 cgggcaactt ctcgggcgag gaatgcaacg caaagagcca aatcgggtggg gtgtttgacg 120
 ctcttcgtgt cactgatgac ctgttgatga ggagggcata ttttaggaag cagcagcttg 180
 acaacaaaac aacatcacct aactctaact gaagaggaca gccggtgtga tttgctctta 240
 cattgatatc gcatgcgtat gaataatggt ccaatggaat tgggagcgga gtaagaagct 300
 catgttgctt ttatgcatgt aataatcatg cctgcctgca tggcccgcga gctgttggtc 360
 caatgcctgn ctgcctgcct gaactggcgt caat 394

<210> 7577
 <211> 136
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-026-Q1-E1-G5
 <400> 7577

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 gctgacaagc cagcatcttc gttgcttcaa atctggccga atttgtagaa taaatacact 120
 acaacagatt atcata 136

<210> 7578
 <211> 455
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-026-Q1-E1-G6

<400> 7578

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acttcactcg cctcgcgccg cacatcctgg gagcctgcaa cgcatacctc ggcgggcgatc 180
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ccgggatcgc ccgtggccag tgacttcaga gcgggcacac ctctgcatg gcgatggcgg 360
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gcacatgatc cttttgttgc gtgacggcat cttgt 455

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<210> 7579
 <211> 471
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-026-Q1-E1-G7

<400> 7579

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gacgggacgg gcctcgttcc cgtcctcgat aaagctaattg gacacctaac tagcgcattt 180
aatgcatttt gtcccctaac gtcaggcgat aagctcacgc gctgtacacc tttccacctc 240
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agggattcgg ctttttgga ctacacaacc gccgtagcta gttcgaaagc tcaagaacac 360
tcaatacatc caccatagca ggactatggt tttacgcac ctcgcgggcc gaacctgtgt 420
aaacgatatt tgtgctggct cctggacctg ctcttctcac aaccccgcg c 471

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<210> 7580

<211> 463
 <212> DNA
 <213> Triticum aestivum

<223> unsure at all n locations
 <223> Clone ID: LIB104-026-Q1-E1-G8

<400> 7580

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 ctcaagcatt tacttttcta gttagagacc agcgtcttg agctaattgt ggatccgctc 300
 aaggaccac aggttttaggt aaatatctaa tgcgttcccc aactgnngaa gttatctttg 360
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<210> 7581
 <211> 387
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-026-Q1-E1-G9

<400> 7581

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 tgcgtgtgac cctgcggggt caaaaattat gtagtgcaca accgagacac ctctccagtc 180
 aataaccaat agcgacacct gggttcccat attggttcct acataatcca agatcatctt 240
 tatccgtcga tgctttatga catcatacat aagtcgcttt gtcagtcctg acgttacgtg 300
 cacaagattc gatcatcggt atcactatgc ctactttaaa ctcatattg gcaagtcgct 360
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<210> 7582
 <211> 376
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-026-Q1-E1-H10

<400> 7582

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acaacatctg cagcttcacg tcggaaacca accccgggca cttgcgggtcg tgggagacca 120
aggacagcca gctgacgatg gtggcgacg acctgaagcc gggggcggtg ctgacgtgcc 180
cggagaagaa gttgatccag caggtggtgt tcgccagcta cgggaaccg ctggggatct 240
gcggaacta cacggtgggc aaatgccaca cgccaaggc caaggagatt gtggagaagg 300
cgtgcgtggg gaagaggagc tgcgtgctgg ccgtgtcgca cgaagtgtac ggcggggacc 360
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<210> 7583

<211> 330

<212> DNA

<213> Triticum aestivum

<223> unsure at all n locations

<223> Clone ID: LIB104-026-Q1-E1-H2

<400> 7583

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ccccttctaa tccaattcag caatttgcag gtacttatga aacaaaaaaaa ataactgtcc 120
gtgatcttgc tagatgaggt ggccgagtgg aaggctgccg ggctgggtgt angaggtctc 180
caacgattcg tgagaagtta gcctaagatt ctagttaagt gtgggtgttg ggttgtacct 240
gtgctacacg tttgttccca ttcgtggcgc acgtcttgta aatatttttt cccttctata 300
aaaatatggt acgtctttgt cgtattcttg 330

<210> 7584

<211> 226

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-026-Q1-E1-H4

<400> 7584

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ccaagggcaa ctaccggctg gtcctgaacg cgagcctgta cgatgacatg tcgctgaag 120
 acatggagaa gaagggcgtg acgttcgcct gcatcaacag caccggcgat acccaggcaa 180
 tgctcatcac gtacgccctc acgttcaagg aactgtcgt cacgga 226

<210> 7585
 <211> 454
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-026-Q1-E1-H5
 <400> 7585

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 ttgtggaggg tgagaacttt ctgagctggg tatggttctt ccgccaagtg aaaattgcca 120
 tcgtgaagga ccgaccaaac gtgtgtgtca ttcagacag acatgctggt ataataagg 180
 tcgtgaagac acttcgtaat ccaacagatg atgaaccaac accttggagg gacttgcaga 240
 gccggtggtg catgcgccat cttggggcta attttttctc acagttcaag aacaagcgg 300
 tgatgaactt gttcaaaaaa ttatgcaagc agagccagca gtgcaaatac gaatttat 360
 ggtcaaaact agatgagttt actaagaagc aggtccgcgc gaggaagaaa atggaagaag 420
 atcagggttaa attagcagca ctcatcgcg agct 454

<210> 7586
 <211> 391
 <212> DNA
 <213> Triticum aestivum
 <223> unsure at all n locations
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 gcttgaatac aataccaaga tctgaaatcc tttaatgaga gagagtattt gcatagttgc 180
 ataattattt agctactcat tgatcttcac ttatatctt cggagtagtt tttgttgttt 240
 gctctagtgc ttcacttata tccttttagag catggtggta gttttatttt gaagaaatat 300
 atgatctatc atgcttcact tagattattt tgagagtcac taatagcatg gtaatttgct 360

taatgttttaa atacttggtta ttcangatat g

391

<210> 7587

<211> 401

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-026-Q1-E1-H8

<400> 7587

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aagactacgc aagtatgcga gcgcccggag atgctttttg cagtttttgc aacatgagtc 120

atattgtaga aaattagatg cggcggagat gttgcattaa cttttgcaac aagagtcttg 180

atgcagaaaa ttagacgcaa cggaatgt tgttgtaatt tttgcaataa ggatcttgtt 240

acagaaaatt agatgtgtga aagatgtgca agaaattaga cgcgtaaaag atgttggtgt 300

tgcagaaaat tagacacagt gggagatggt gtttgcaatt tttccaaggg tcctgttgca 360

gaaaactaaa gaagaagaag ttttgcaaca tgggtcctgt t 401

<210> 7588

<211> 225

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-026-Q1-E1-H9

<400> 7588

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gtgggtttca gggacttttt gaatgggaat ttgatggcac tatgctgcgc tgtgatttgg 120

aagttctcaa cagcacagt acatgtgaaa ttctcttacg tgcaagtcac ctgctctaata 180

ctcgccattt ttgaaattac ctgaaaagca gcaactctac aggat 225

<210> 7589

<211> 395

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-027-Q1-E1-A1

<400> 7589

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 aaacgctgca cccggactgt gtctggccca ggtaccggcc gagctctgtt cactgatttg 120
 catcacagtg cccccgagt cgagctctat tctgaacatg ctccagaaca cgctgggtag 180
 gattccctcg acctcctaaa acaagccaga caaagggaca aggtccgatg gggcatcaat 240
 gcacatttct tgcattcata tcttgccaaa attctgataa gtcaacgcct tcaatccggg 300
 atacatgctc gtctgattgg attaataaat cctcaatatt tcctcactta gggaagatcg 360
 tctcatcacc tccctcatag tcttgccac attta 395

<210> 7590
 <211> 311
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-027-Q1-E1-A10
 <400> 7590

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 cgcacacctt tcgcgcggtg tcatacagcg agcagatgcc ttctcagaa cagccagcag 180
 acgtacatat catgggtattg tccagagacg attccatgat agattgccat gcagctttcc 240
 accgttgctg ctaggaggca tgcttcatca ttgtcataat gcgttgcatg atcatgtgct 300
 tgacattgtt t 311

<210> 7591
 <211> 289
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-027-Q1-E1-A11
 <400> 7591

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 gattacatac ctttccatgg taactttatag cccttatata ttttcatcaa aattacctat 180
 catcgtattc tatcatggta tttctatatg gttccgacat atattgccat gcacttttcc 240

actgttccgt ttattatgat acgcttcacg attgttatct tgctttgcc

289

<210> 7592

<211> 234

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-027-Q1-E1-A2

<400> 7592

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cctggcgggtg tcgcgctcgg gtacggcccg aattcggttc gcgttttttt agtccgtgca 120

gaacagaaag agggagaaat actaaacgga ctccaaaaat cctgaaataa atttccctg 180

gcttctaaaa tcaggccgca caaggtgaac atttatttga ggctaaatg caat 234

<210> 7593

<211> 117

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-027-Q1-E1-A3

<400> 7593

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ctgtgatacc attcaagata attcctggta cgcttttatt aataaatcct caatata 117

<210> 7594

<211> 452

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-027-Q1-E1-A5

<400> 7594

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ccccattctt tctggtctac ggagccgaac agctttgccg agtgacctgc ttcacaacgc 120

accccgagtc gagctctact ctgaagatga agcagaacaa gcccggcagg acgcaatcga 180

cctcctagaa gaagaaagag aaatggccat ggtccgatcg accatctatc agcaagcctt 240

gcacgatc catgccagaa atgtgaagag tcgagccttc caagaaggag acttggtcct 300

ccgagtggat taacaaaaac cacacaaact ctacactact tgggaaggtc cttcatagt 360
 cactagagtc ctctccacc ttataacgt cgatcgccaa gattgatgag caacgaatcc 420
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<210> 7595
 <211> 231
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-027-Q1-E1-A6
 <400> 7595

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 cccattcttt ctggtctacg gagccgaaca gctttgccga gtgacctgct tcacggggca 120
 ccccgagtcg agctctaate tgaagatgaa tcataacatt cccggcagga cgcaatcgac 180
 ctctataag aagaatgaga aatgggtcatg gtccgatcga caatctagca g 231

<210> 7596
 <211> 456
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-027-Q1-E1-B1
 <400> 7596

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 atcttggggt gccatgggca tccccagct taggtcttg ccacccttta ttccataatc 180
 caaaaaaggt ttaacaaaaa ctttaaaact tcacaacaca aaactcaaca agtaatctta 240
 taagctccgt taatgaaaga aaacaagacc accacataag gtactgcaat gaactcattc 300
 tttatttatt ttttttgtg ttaaacctac tgtattccaa cttccttaag gtttataaac 360
 taatttatta gccatagatg cattgaaata cgcaaacac acacgaataa cagaatctgt 420
 caaaaacaga acaatctgta gcaatctgta actaac 456

<210> 7597
 <211> 412

<212> DNA
 <213> *Triticum aestivum*

 <223> Clone ID: LIB104-027-Q1-E1-B10

 <400> 7597

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 agctgagctc gttccagcag gagatcgtgc agctggcggc ggtgctgaac ggcgaccacc 120
 agctaagcag cctgcaggag aggatcaggg agaggatgaa cgtgagggaa ggcacctcct 180
 acatgaggag cgccgtgcgg cgcttcttcg aggccggcat gtccggccaag aggatgggccc 240
 tcgccgacga cgagcagatc gtcaagatga ggccctccct taccaccaga atgacctcct 300
 cccctgcaga tcaagatgat agtccgtaga gagcaacgat gcatacatat ataggatgaa 360
 gattgatgtt ggaattacca caattcttag tactacacat acatacatag aa 412

<210> 7598
 <211> 423
 <212> DNA
 <213> *Triticum aestivum*

 <223> Clone ID: LIB104-027-Q1-E1-B11

 <400> 7598

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 ctgcgactac atgatgtttg agaaacggat ggccgagaca aagtctttca aagcgctagc 120
 accttacgat cgggtagaca gtaccaacct acatccccta catatgctag tctaccactg 180
 taagagttcg cagcacttag tcaactatgc tagagcctgt agtagcttgt ggctgcatat 240
 ggaagtttct agtatgaata atctcacgat ccctttgagc ctgggtggcg gtccataaag 300
 aaaaacaggc aatcactgga ataccagggt gcctcaatcc acccagatgt gtgtttaagt 360
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 caa 423

<210> 7599
 <211> 380
 <212> DNA
 <213> *Triticum aestivum*

 <223> unsure at all n locations

<223> Clone ID: LIB104-027-Q1-E1-B2

<400> 7599

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aacggattga gacggaaagc ggtaatcaat cgccgcgtgg tggaacgctt gttggagaag 120
ggtaagcgcc tccatgtcgt angggtgggt aggccaatag aagactacgg aacttagcct 180
agccactcag ttctgccccg agccaagtct atttagtgtc agcgaacaca taccactatc 240
tatatatagg tttttctttt tcgtagaggt tgcgcttaa gtccttggac ccttccttca 300
tgaagcttga ggaaacactc acttttcaat caacngcatt cttggttctg cacttaatcc 360
tgaacctgtg ttgggttggg 380

<210> 7600

<211> 429

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-027-Q1-E1-B3

<400> 7600

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gtcttggagc gtcttttgca tttagttttc acttttcttt tatgcaccat gccggtatga 180
gatagtcttt ggttgattta tagaatgctc attgcacctc acttaaatta tttgagttag 240
ggcttaaaaa atggctcaag ttctcaatt aaaacatttg aaatttggat tgctgtttc 300
ccttcacata gaaaacggcc atttgtagaa tgcccttttt cttcacttat atttgttaga 360
gcgtgggcat atcttttgta gaaataatta aactctcttg cttcacttat atccaattag 420
agagatgac 429

<210> 7601

<211> 419

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-027-Q1-E1-B4

<400> 7601

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 acttgtggga ttcacaattc ctggtttcgc ctacattggc cttggagaca catcgccagg 180
 atacgcgggtt aacttctata acatcatacc gattgccgcc ttcacccctcg cggtcctttt 240
 caggaaggag ccaactggaca tgacgagcct ggtggggaac atcaggttca ttggaaccct 300
 agtctgtgtt ggaggaacgc tggatgatcac ccgttacaag ggcaacgtgc tgcacctttg 360
 gccacaaaat atcatcggtt accacccgaa gcaagccga actgcctttg ggtaacacc 419

<210> 7602
 <211> 437
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-027-Q1-E1-B5
 <400> 7602

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 acccccgagt cctcggtggg tgaggtcaag agaatcatcg agagtgtctca tgggcagaat 180
 gtgtaccctg cggatcagct gatgattata tatcaaggaa aaattcccaa ggatgatacc 240
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 aaggcgtcat catctagtgg tgcttctact gcttcaaagg cacctgctaa tcagtctcaa 360
 cctgctactc cacctgcccc tgttgectca gctgcaagat aacaacttca caggaacctg 420
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<210> 7603
 <211> 432
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-027-Q1-E1-C1
 <400> 7603

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taaaaagttt cacaatggta aggggaataa taatgggaaa aggggtaatt caagaatttc 180
ctttacttgg tgccgggtgc ttttaaccact atgggtggat ctattctcca taaaactagt 240
agtcttgcag atgctatata tttgctcata gttgaacttg aaagacaatt tattcacatg 300
catccttcca tacaaggaat ttttctagag ttttctaata ttgagcattc ttctgttaag 360
cgcgagcta ccatctttct agcacatgag ttcatattta taataaaaga ggctagttaa 420
atctttgcac at 432

<210> 7604
<211> 414
<212> DNA
<213> Triticum aestivum
<223> Clone ID: LIB104-027-Q1-E1-C10

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cctctttcgt cttcgttcat tggttaacttt acttggagct ataattttat tctccacatg 240
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atcatccttt gtcgtacaca tccttatggg atacagccta ctttgattat aatctgctgg 360
aatactctat gtgcttcaat tatacttttc gaacttgata gcttttggtc caat 414

<210> 7605
<211> 268
<212> DNA
<213> Triticum aestivum
<223> Clone ID: LIB104-027-Q1-E1-C11

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atgcacgttt gtgaccggac ggaatggctg cactgttttt ccaactatta tggcaactct 180
ttggtgtcgt tcacagcgt catgtttgat aaaaaataac ttggtagtgt tgcacttcct 240

gaattaaatt aatccgccta gctaaata

268

<210> 7606

<211> 439

<212> DNA

<213> Triticum aestivum

<223> unsure at all n locations

<223> Clone ID: LIB104-027-Q1-E1-C4

<400> 7606

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ccccgttttg accgcaatgc tccaacacat gtctgtttcc tccgttttgc ggtacgccac 180
accctctctg atcaacaaga ccctgtttcg accgtangag gtccaacaca agtccgtttc 240
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gtcgaacaca aggtcgtttc caccgttctg cggtagcca ggctcgttt ccatcggtg 360
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cccgatgaac aggaccttg 439

<210> 7607

<211> 428

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-027-Q1-E1-C8

<400> 7607

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cctctggggg aaaggggagg aaacacaaga gcagcgcaag caaagcagag aggcggcgaa 120
cggaaacggg agcgcggcag gtagtgggct ggacagcgtg caggttggga agcacgaggt 180
gcgaattcgc gtggaagtga gctagctaat tatacagaca catatataga cagtattggc 240
gcagaaggca gatgaaagga gtcaaatcaa gatgaacaaa tctctgagat cagatgtata 300
tacatatgta tgtaagtatg tcttatgcag actcttactt ttctgagata agaacaactc 360
taatagattc gttaaaaaaa aattcatgaa caatgtgcag taaggatcaa ctggaaactt 420
gccttaaa 428

<210> 7608
 <211> 341
 <212> DNA
 <213> Triticum aestivum

 <223> unsure at all n locations
 <223> Clone ID: LIB104-027-Q1-E1-C9

 <400> 7608

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gcgtcgtggc ggacagacgc gcaggggctg tgcaagaagc tcaactcaca tgtcaagggc 120
ggcgtcgggc catttgggct ctgggtgctc gcctccgacg acctcaagga aagaacagct 180
gttttcttca gggatttcaa gaacaatgac accagctatg tcgtcctcat gtgcaacgac 240
cctacaaggt cgtcattcga gtcgcagatc tacangccga ccttcgccgg cttcgtcaac 300
atcgacatta acaagaccaa gaagatcgcc ctcangacat t 341
  
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<210> 7609
 <211> 427
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: LIB104-027-Q1-E1-D1

 <400> 7609

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aaggacgtcg ccaaggtctt ctgaatcagt tcatttcacc tcagccgtcc gatccaggag 180
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atccagcctc agcttcacct gaggccggcc ctaattttgt ttgatcattt tttttgctac 300
cagtagtaac tagtgatgat cactgttcca tcattttattt attttatatc atcacaagtt 360
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<210> 7610
 <211> 431
 <212> DNA

<213> *Triticum aestivum*
 <223> unsure at all n locations
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<400> 7610

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 ttgcaaaaga tgctgatttt gatcttaaca attatagttg ttgttcaagc agtagaagat 180
 ctggcaacct cacggccatc tcattcgaaa ttgaagtcct atccttaaag tttagctaag 240
 tgtattatgt attttctggt ttaaattatt ttctcatgt gacacaaaag gcttgaagcc 300
 ttcttttaac tcgcacttct atgctaacca aatttatttc tggctgtcag aagagtccg 360
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<210> 7611
 <211> 222
 <212> DNA
 <213> *Triticum aestivum*

<223> Clone ID: LIB104-027-Q1-E1-D4

<400> 7611

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 aatgagcacg tgactacaca tcaaatggaa ttctgcacat tcctacgtcg aacgatcaac 180
 tgccatctga agccatttat aaccttgaca cattgagaag ca 222

<210> 7612
 <211> 459
 <212> DNA
 <213> *Triticum aestivum*

<223> Clone ID: LIB104-027-Q1-E1-D7

<400> 7612

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tcacccttcc atcattgcta gcctcttcgg tacogtgcac tgcctttct cacctcaaga 180
 gttggtgcaa acttcgccgg tgcacccaaa cccogtgata tgatagcta tgtcacacat 240
 aagcctcatt atatcttctt caaaacagcc accataccta cctatcatgg catttccata 300
 gccattccga gatataattgc catgcaactt ccatcatcat catatacatg acttgagcat 360
 ttattgtcat attgctttgc atgategtaa gatagctagc atgatgtttt catgacttgt 420
 ccgttttttt gagtccatgc tacgctagat cattgcaca 459

<210> 7613
 <211> 417
 <212> DNA
 <213> Triticum aestivum
 <223> unsure at all n locations
 <223> Clone ID: LIB104-027-Q1-E1-D9
 <400> 7613

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 gtgaaaatgt gatcggcatt ggtggctctg gcgcgattgt gtttcagggg gttctccctt 120
 ctgggtcaag ggttgctgtc aaacgggttc aagctatgtg gccgtgctca aaggcggttc 180
 tgagttagct tcgtgccatg cttgattgcc cacaccaccc caatcttgcg cactcttg 240
 gatggtgctc cagttagcat gaccagggtc ttgtttacga gttcatgccc aatggtaatc 300
 ttgacagtgc actgcacaca aagggtggag caatacttcc ttgggaggca cngtttcngg 360
 cgggtgcttg tgttgcatca acacttaa atttgcacga tgaatgtgaa caccgca 417

<210> 7614
 <211> 388
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-027-Q1-E1-E1
 <400> 7614

gggtcgacgg gatgggcaac aaaggcgccg cgctcagcaa cgccgtctcc tactgggtct 60
 acgtgatcgt gctggctgtg tacgtcaagg tgcgggctc ctgcaaagag acgtggacgg 120
 ggttctccac ggaagcggtc cgcgacgtgc tcagcttctt ccggctcgcc gtcccgtcgg 180

ccctcatggg ctgcctggag atgtggctcg tcgagctcat agtgctcctg tcaggccttc 240
 ttcccaatcc aaagctggag acttcgggtgc tgtccatcag cctcaacacc gctgccttcg 300
 tatggatgat cccctttggc ctcggtctcg ccataagcac ccgtgtctca aacgagctcg 360
 gagcggggcg ccccgacgct gcccggt 388

<210> 7615
 <211> 358
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-027-Q1-E1-E10
 <400> 7615

tgacgataag aatacgaacg tgcgacgacg tcgcgctta gcaatcgcta aaccaactcc 60
 gagaggttac tgaccacgct ggagcacgat caacctgacc acgaggggtct gtttcctgcg 120
 agcaaacgaa gaacactcaa gaaactaaga ttgactctg gacattgcaa ctataatatg 180
 aaagctttag tgatcacggt ggggttctgt cacatccttg tccggtcatt gaacacacac 240
 gaagtagcca aagttgcagc tatggcgaac gtttaatcta aacaaaaccc taactcgaaa 300
 ccacgcccta agggctctac atgtcgagga acatggggga atttcgtggc cctttggt 358

<210> 7616
 <211> 408
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-027-Q1-E1-E3
 <400> 7616

tccgggtcga cgggaaccgt gaccgttgag tattcagaac tatttcagtt atacaatcaa 60
 tacgcactct acaaattctat cgtcagttgc tattgtctgt aagtgatttc tttctgtagt 120
 ttaagtcgca agctaactgt agtgatcatt ttgatcaatc attacctgta attagcctca 180
 ctatattctt ttctgtggta ttatgcagga tgaagatgta tgaaatgaaa aaatctggac 240
 gctatggcat tgggtccatt gagccaaata gcaataatga gtagacatgg aatattccaa 300
 gttgtcgagc aagtttagag gaaagcatgc tagagttctt caagcgcctc aataccaatg 360
 gagatatact acttccttac aacttcctgt gagtcacact gtcttgta 408

<210> 7617
 <211> 406
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: LIB104-027-Q1-E1-E4

 <400> 7617

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 ggatgtttcg tcgtggtatc atggcaaccc aactcctcgc tacgtggaca atcgtttacc 120
 accttcttaa gtgtggaatt gttgtccacc tagtgaacct tcgtcatccg tttctttcca 180
 cccctcttga tgcgtatctc gtgtctcaac ctgagagatg gttctatggt tcattccgtg 240
 agttgttcga cctttgagaa gatcgatcct tccagaatth ttttccctct cgttgtcatg 300
 ttagctaaaa ttctcaaaag caggacatca agacaaagat ggtgatcaaa tcaacgttcc 360
 tatgaagtgc aagttggatc gtgaagattg cgctagtgtg gttccc 406

<210> 7618
 <211> 423
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: LIB104-027-Q1-E1-E5

 <400> 7618

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 acccagtcgc tagttgaact acccatcaag ggtaggacgt acacgtggag taacatgcaa 120
 gatgaccogt tgctggtgca attagattgg tttttttcct cagtgcactg gtcttcttcc 180
 tagcctaata cactgtatc gcccttgggc aagcctgctt cagatcacgt cccctgcgtc 240
 attggcattg atttgtgcat cccaaaaagc aaggtgtttc attttgaaaa ctactggata 300
 caacattcag ggtttcacga gatagtgcaa tgctcttgaa gccaaccttg tcatgcggtc 360
 aactcagcgg ctttgatctg tagaaagcta aagatactgc gttacgcttt aaagtccctgg 420
 agc 423

<210> 7619
 <211> 418
 <212> DNA

gggtcgacat gcatgcgcaa ggggaaccag gcgacttgcc gtacgcggta ggttgccctg 60
 cgtttactca tgagctgcgg caagtccagt ggccaacac gaagaatttc aagccagacg 120
 taccagagaa gtacgacggc aagtcgcata catcggagtt cctcagcata tacaccaccg 180
 cggcgcaggg tgccgggggg cgggacgaca agatccttgc caactacttc ccgctggtgc 240
 tcaagcccaa cgtcagggtcc tggctcatgc acttgccgga cgactccata tcctcctggg 300
 cagacctatg ccattagttt gtcgggcgct ttacaggcgt ccacaaacct catggccaag 360
 agagtgcact tcattctgct gcccagaagg aaagagagcc cctgcgcaag tacaattcag 420
 agatcagccg tgtacagcac aacatcccag atg 453

<210> 7622
 <211> 457
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-027-Q1-E1-F5
 <400> 7622

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 agtatattgc aatgtccgct ggggagtatc aagggtgtgtg gctaggaagg ttacacagtg 120
 atctcatgga tcgagatcca acaagtggta cttaatgttg atagcaagtc ttaatttttt 180
 tctacgtgaa gatccagcac gccatgatag aagcaagcac attaatacgg tgtatcacta 240
 cataaaggac tgcattgaaa aagggaaagt caactacatt tacaccaatg atcagatgat 300
 agatatgcta accaagactt tggaccgaga gaagtttttg aagatacgaa gaaggatcga 360
 cgtccgagtt gtaatatggt gacgtggtgt ttagggggat gattgttaga atttaacacg 420
 tagtcacaat cctggctcgg acgtaaacag gacaccg 457

<210> 7623
 <211> 459
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-027-Q1-E1-F7
 <400> 7623

aattcgcggg ccgacgggca agctcacacc aacgagggtta gcaagggcaa accactagat 60

tggatttcag gacaaccagt cgcagatgag catgaacgcc tccagattat aaagaatgat 120
gacctcgaag agctccaaga actcggttct ggaacttttg gaactgtata tcatggtaaa 180
tggaggggct ctgatgttgc aataaaaaga atcaatgaca gatgttttgc tgggaagcca 240
tctgagcaag aaaaaaatgc ggaatgactt ctggaatgaa gcatctaacc ttgctgatct 300
gcaccacccc aatgttgtgg ccttttacgg cgttgttcta gatgggctg ggggatccat 360
tgcaacgggt acagaatata tggtaaatgg ctcaattagg acggctttgc tgaagaattc 420
aaggaccctg gatggacgca aacggctaatt tattgccat 459

<210> 7624

<211> 374

<212> DNA

<213> Triticum aestivum

<223> unsure at all n locations

<223> Clone ID: LIB104-027-Q1-E1-G2

<400> 7624

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ggctgttgtg tggatgcaga accaacttgc acagaacaag acccaggatc tcatactaga 120
ttacgttaac cagctgtgca accgtctgcc aagcccatg ggagaatcag ctgtggactg 180
tgccagcctt ggattcatgc ctgacattga gttcaccatt aatggcaaga agtttgcgct 240
gaaaccagaa gagtatatcc tgaaggttgg cgaaggagct gctgcccagt gcatcagtgg 300
attcacagcc atggacatcc cgctcctcg cggctccttc tggatcctgn gagacgtttt 360
catgggcccc taac 374

<210> 7625

<211> 458

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-027-Q1-E1-G4

<400> 7625

gggtcgacgg gaataagagc aagtgcagt gaaaagttac tctaagacta ctgctgaatc 60
aaatattcaa caatagtctc gaggactaca cctagtgtgt gccttagcgt gccccactg 120
gttcagatca gtactcagca gggatatgcc agcgtgagtc caaaaaagag agagaaagag 180

agtacattct aagacctcac actactagga aaaggcctac taatggcgca cgggttttgc 240
 ctactaatgg cgcactaccg gtgcgccatt agtagcacgc cactagtatt ttttactaat 300
 ggcgcaacac cggggcgcca ttagtatctg atatactaataat ggcgccaccac gaagtgcgct 360
 attagtatgt aagaacatgc gccattagta tgcctcccgg gggggccata cgtaaccatg 420
 tgctttgtca tactaatggc tcactctgtg gtgatgcg 458

<210> 7626
 <211> 479
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-027-Q1-E1-G6

<400> 7626

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 ttgccgaatc cctaaagggtg ttcggcggtg cactgcgaga cttctgttga aaatacacaa 120
 atagtttgaa agtgccatgg gctcgaaaag cgaaaaaact tattcaaaat gttaatgtcc 180
 gaactagatc aagtgttcgg tgccaatccg aaaattggac tttagaaaaa aagggtgcttc 240
 tgccgtgctt taacatgaca catcctatct caaaacttca agcgggtcag cctacagctt 300
 caacctccta tcccgaaagc agagtacttc ttactaggcc cgtttagcaa actacactct 360
 atcggctttg agagagaaat taagctccac cgctagcgac cgcacacttg tgtcaaaaaa 420
 aaggattggc aaatactact aacaactttg cagcgactac taagaaaaac acttatcat 479

<210> 7627
 <211> 350
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-027-Q1-E1-G8

<400> 7627

gccggccgat tgggtcacca acaatatcaa tacctcatgt atcttcgcat tattcagatt 60
 gctttaccat attcttgccg gttcttaggt tatttggaac gaagacacct tcgaggccag 120
 gttgatcgtg ctcgagcgtg gtcaataacc tcacggactt agtttatcca ttgccacagc 180
 gcaagctcgt gcaagtttgt actccgatct ccaaagtcgt ttccaacagg tcgatagtta 240

tcattctcagt gaaagatcgg gacacgctct cctctagtaa gtgagatcag ttttcaagat 300
gctcagtaag aatttctagt tctcatagat gagatgtata ttcttaccta 350

<210> 7628
<211> 365
<212> DNA
<213> Triticum aestivum

<223> unsure at all n locations
<223> Clone ID: LIB104-027-Q1-E1-H10

<400> 7628

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caagagccta agcttgggga ttaccaaggc accccaaggt aaaattcaag gacatccaaa 120
agcctaagct tggggatgcc cccggaagga tcccctcctt cttcttcgtc catcggtaac 180
tttacttgga gctataat ttttaccac atgatatgtg tttttcttgg agcgtcntgt 240
antatttgag tctttgcttt ttagtttacc acaatcatcc ttgttgtaca caccttttga 300
gagagacaca catgattcgg aatttgttgg aatactctat gtgcttcgct tatatctttt 360
gagct 365

<210> 7629
<211> 377
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-027-Q1-E1-H12

<400> 7629

gacgcggacg atcacaaatt catgaacttt ctttccatcc ttggttaact aactcgaccc 60
atgtatcctg gcgatacccc ctagctggag ataagctacc agttgctcct tgaaagcgaa 120
cgatgaaaga ctgcacatga cacatagatt gagttttgtc cacggatgtc atctcccccc 180
tgccctgccc ttatcttgcc gtccccaagc caacagatgc atgtgcgttc agctgacgcg 240
gatccgttgt tgatgagacg tttattacca ccgaaaaatt acgattcctt aagacgaaga 300
tattggcaga attcgaaaag gagaatgaat ggcgactgtc aagtcaggta tggaaacgtg 360
cactggtgcg agctaaa 377

<210> 7630
 <211> 189
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: LIB104-027-Q1-E1-H2

 <400> 7630

 gttctgaaac cagggatgcg caaggaagct gacgagcgaa ccgggagcag cccagcttga 60
 gaatcgggcg gctgtgccgt ccgaattgta gtctggaaaa gcgtcctcag cgaccgaccg 120
 ggcccaagtc ccctggaaag gggcgccctgg gaagggtgaga accccgttcg gcccggaacc 180
 tgtcgcccc 189

<210> 7631
 <211> 459
 <212> DNA
 <213> Triticum aestivum

 <223> unsure at all n locations
 <223> Clone ID: LIB104-027-Q1-E1-H4

 <400> 7631

 tcggccgaga gtgctattaa atatttttaa aacaaaaaaa taaagagggg aacctaaaac 60
 ttttcaaaaa ggaaagtga agttataaag acaagcattg ttgaagtga agagctcctt 120
 gaactttgtt catgctcacg ggaactctgt gaatcttgat ttacaaaaaa tttcaaacia 180
 aaataattat ccctttggtc aattccaacc tattaaaaaa ataatgggtgc aaaggttggc 240
 ttttaaggagt ttaaaatgct tgggtggttg tacggtgcaa ggcaaaaacc ttgggtgtaa 300
 tgccccaatt taaaatttta actggaaagg caaacgggtc cgatttcctt tgcaactgtct 360
 ttctgtacaa agtttcta at tttcccaagt tttggttaaa tttttggggt accataagta 420
 ngtttaatgt tcagatttct acagactgtt ctgtttttg 459

<210> 7632
 <211> 372
 <212> DNA
 <213> Triticum aestivum

 <223> unsure at all n locations
 <223> Clone ID: LIB104-027-Q1-E1-H6

<400> 7632

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ggtactcgta gccgtctgtt tttacttttt tttttacacg gagaggtgct catctttttt 120

cgctgctgta tgcatgggta gctgtcagtg gcatgttgca gaaaaggaag gcgactgaat 180

tacatactgt aagtagaagt agcagtggtat gggaggtccc gttgggagta gggagcacag 240

ccaagttgac agtgttggtg atttcgacgt gtaaacttgc tagtactaag ctgcttaatt 300

acagtagctc attatgaaga ggaattgagc gaaaaacaan aaagaaaagg aaaaaaaaaa 360

agcggccgct ct 372

<210> 7633

<211> 369

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-027-Q1-E1-H8

<400> 7633

gggcaatggc aaagttgagt gtagaaatcg taccctaac gtatcactta gtcgtcgtaa 60

gatcctgcaa catgagacgt tgcagccaca aagggtcagt acattgaatg tactggcaaa 120

ttcacaccaa agagcaatga tgaataaagg ctatcactac atgcatatat ggctgggtgga 180

aagctctatg gttacagttt ttgcaaaaag ccaatttttc cctactacaa aggaataaat 240

tttacttact atcattgtgg ttgtttaaca atgagaatgg ttgacactat tctcaatccc 300

aatttaacat catcattaaa acccaacaaa atttattata agtaacatga ttagattaac 360

atgataatc 369

<210> 7634

<211> 281

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-028-Q1-E1-A11

<400> 7634

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atgtcaagct gttaattgtc gtgatttgcc gggttgaact ctacatgttt gccaatatac 120

ctgtgcagcg ggtgcaactt tggcacagtg aactattact tactttgtga aaacaaaaac 180
gataaaaggg aatacacagt gcgggtcccg cgctcggatg gatgcttacg taggtatgca 240
tgcaacctca gtgatattcc atcgagggac ccacttacat t 281

<210> 7635
<211> 415
<212> DNA
<213> Triticum aestivum
<223> unsure at all n locations
<223> Clone ID: LIB104-028-Q1-E1-A12
<400> 7635

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cagttcagct agaggaagac gaaggcggtt cgatcagtc gatctcctgc tccttttaca 120
tgatgattac tattatctta atcttagtgc atgtgtatgt aatatgcacc atgaattggc 180
agtgcagtgc agtgcagcac agcacatctc tgaacctggg aaggtactac tagctttctt 240
ttcactcaga caagtcggga gggggtttct tgtcagttag tcggtttctg gcttgtcagt 300
agctgtggcg cgtgtcgtgt ggatcgagtt agttgtacta ccagaaattc ggaatgacan 360
tggaaccatg catagcanan nnaannnnnn nnnnnnnaaa aaaaaagccg gcggc 415

<210> 7636
<211> 393
<212> DNA
<213> Triticum aestivum
<223> Clone ID: LIB104-028-Q1-E1-A2
<400> 7636

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ttgccaaatc tcatgcgtgc aatgcacgtg taccttactc tagtctaaat ggtgtttctg 120
tgcttagttc tgctgagctg tacaactctg aaactaaaag ttggattaca cttccaagca 180
tgaacaagcg tcggagaatg tgttctggag tcttcatgga tggcaagttt tatgttattg 240
gtggaatggc cagtaacacg gaggtgctga catgcggtga agagtatgat ttagagaagg 300
gcacctggag gttgatagag aacatgtccg aggggctcaa tggtgccagt ggtgctcctc 360
gccttggtgc tgtaattgac aatgaactat atg 393

<210> 7637
 <211> 373
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: LIB104-028-Q1-E1-A3

 <400> 7637

ggccatcaa gaagagcagt aatataaagc ttttgagctt aagcacatga atcaagcccc 60
 cagaatccga tggccactg agccagtttt aagttggcga ggaatggtgg agcactgaac 120
 cttgccacac aacggcaccc ccttcgcctg atgacctttt ccgatcacga tgacctcctg 180
 tcgctgctga acgaattggg aacagtactg gaggaattgt gatctatgtc aagggatgatg 240
 atgtctatgg aaatgattgt tgagtgttat gatacatatg gtgatgaatg gtgacgaatc 300
 taatgtcttt cgtcaagaca tgcaacaaag tgaagttatg aagttctggt caatttagct 360
 tatgcataat gct 373

<210> 7638
 <211> 402
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: LIB104-028-Q1-E1-A4

 <400> 7638

tcccgggtgc acgggtacga caaaatatga tgataattga atttgttccg ccgaaaaaac 60
 aaaacctttg aaccattaa aaaaaatta aggaaccac aggaacgata ttttgcattg 120
 attcttagtg caggatgaca atacagcaaa tttcatagga catcatatgt tggtacgatt 180
 tttgaagttc cagaagttag cgttaggtac atattgctat aactgtact gtttttgaca 240
 gattctggct ttcgtgtgtt gtatgcttag tttgatgcac ctatggctac tatgtaaggg 300
 tatgaacat agacaacttg gaatacagta tgtttaacac caagttaa atacagattgag 360
 ttcattacag taccttacgt tgtggttttg taatctttca ct 402

<210> 7639
 <211> 355
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-028-Q1-E1-A5

<400> 7639

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tcattgattc gtttttcttc tgatcaatat acaaatttta caggacttcc tattttggta 120
ggatttttag agttccagaa gtttgcgtta gttatagatt tctacagatt gttctgtttt 180
tgacagattc tgtttttcgt gtgttggttg cttaacttga tgcatttatg gctagtaaaa 240
tagtttataa accatagaga aattgggata cagttggttt aacaccaaaa taaatacaca 300
atgagttcat tacagtacca tatgtggtgg ttttgttttc tttcactaac ggagc 355

<210> 7640

<211> 387

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-028-Q1-E1-A6

<400> 7640

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gatccgaagt aattcgagct gtaattgtac gtacatgtaa agagttcaaa tgccaagacg 120
gtataataat ccgctatgat gacaatgctg cgggtataat tgatcaaaaa ggcaatccaa 180
aaggaactcg agtttttggc gcgattgccg aggaattgag aggattgaat tttaccaaaa 240
tagtttcatt agctcctgaa gtattataaa tactagtagg cgaaattgag atcaaagaat 300
taatttagta gattgtgttt tacgtatatg ttttaaaatc caaatgaaa aaaaaaaaaa 360
aagaaaacat gttgattata gaaaaat 387

<210> 7641

<211> 452

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-028-Q1-E1-A7

<400> 7641

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tgaactattg tctcgttcat ataaaaagat caatgtacga gccacgtaga caccgacatg 120

acaaaactaa aaagacatta gaacatcagc cttttgcaca aaggattatc agccaagaaa 180
gaagattaca atcaggaccg actacatcct agagcttgag tcaaaacgca catcacttgc 240
ctccggcaac atcacagcaa ccaccaaaga aaaaaataat ggatcacctt ttcacccaag 300
ctcaatgtgg ctccaacgct aatatgcaat ttttcagtcc tccaaaatag cttaccaaatt 360
gatggtgtcc cggttgaggg gcctctcacc atgtcgaatc ctggcctggg tgggccaacc 420
tgaggacccc ttgtcggttt cgacttgggc ca 452

<210> 7642
<211> 389
<212> DNA
<213> Triticum aestivum
<223> Clone ID: LIB104-028-Q1-E1-A8
<400> 7642

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ggacattaga acatcagcct tttgcacaga ggattatcag ccaagaaaga ggattacaat 180
caggacggac tacatcctag agcttgagtc agaacgcaca tcacttgcct ccggcaacat 240
cacacgaacg accacagaat aaaataatgg atcacctttt caccagagc tcaatgtggc 300
tccaacgcta atatgcaatt tttcagtcct ccaaaatatc ttaccaaattg atggtgtccc 360
ggctgagggg cctctcacca tgtcgaatc 389

<210> 7643
<211> 391
<212> DNA
<213> Triticum aestivum
<223> Clone ID: LIB104-028-Q1-E1-B1
<400> 7643

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tccttcatga aggtccgctc gtgggtgcct tactcctttg aattgtccg ggtgaaaact 120
caatctttgg gatcggatgg tggcggtat cagtggctgt ttggcaccat cttggagtcc 180
ttgttccgctc gttttccgctc tcacctctcc tcggaggatt ggaggactcc gttggctcca 240

agcggatcat cctcgcgtat gtgtagtggc tttgtagtca ttgggggtggg gtggcggtgc 300
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 tatcgtcgtg atgctttgtg attggtgcct t 391

<210> 7644
 <211> 284
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-028-Q1-E1-B10
 <400> 7644

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 ttgcctatct tgaaaataag cacatgctgc tgtgtttatt taaacaccat gaagcgcata 180
 catgaaagaa ggcattgacat ataaaaagat taagcatcaa caaaaacgag gccgctctta 240
 aggatcaagc cttcctttag cgtcaatacg acgtcatacc tctt 284

<210> 7645
 <211> 395
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-028-Q1-E1-B11
 <400> 7645

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 ctaacctatt aaccggaggc ccagcccaaa ttgctgtttt ttgccaattt tagagtttcg 180
 ccgaaaagga atatcaaacg gagtccaaat ggaatgaaac cttcgggagc gttatttttg 240
 gaacaaacgt gatccaggag acttgaggatg gacgtcaaga aacaatcgag gaggccacga 300
 ggcagggggc gcgccctcca ccctcgtggg cccctcattg ctccaccgac ctacttattc 360
 ctccatata tgtccatata ccccgcaaac atcca 395

<210> 7646
 <211> 213

<212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-028-Q1-E1-B12

<400> 7646

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 cggccgcccc gcacaaattg ctgttttttg ctacttttag agtttcgcca aaatggaatc 180
 tcaatacggga actcgatatg gcacaacacc ttc 213

<210> 7647
 <211> 422
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-028-Q1-E1-B2

<400> 7647

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 cagttttttg tagtttagat cgagtctggt cttcatacct acagtccacg aaaaagccac 180
 aaaaaaaaaat tagggtagt tcatcatatc cgaaccaatc tgagcctttg cataatcttt 240
 ttaggggtttt gctttgttga atttgcgggt gcacgtcgt gtctagtgtc tgggtcttaga 300
 gtctagtctt ttagagtttc gagttctggt cataagttgt caccgcccgc ccgcaccatc 360
 atcatcacc ctgccatcta ccaccaccgc ttatccgcca ccgcttcgaa tccgtatcca 420
 ta 422

<210> 7648
 <211> 377
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-028-Q1-E1-B3

<400> 7648

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gttaggtgga tctattctcc ataaaactag tagtcttggtg gatgctatat ctttgcccgt 180
 agttgaactt gaaaggcaat ttgttcatat gcatccatcc atacaaagga tttttctaga 240
 gtttcccaat attgagcatt attctattaa gcgcgccgcc actatatttc tagcaaatga 300
 gtttagattt attatgaaag aagctagtga aattttcgcg cattataaag tagatggtgg 360
 tcatcctcct atagaag 377

<210> 7649
 <211> 415
 <212> DNA
 <213> Triticum aestivum
 <223> unsure at all n locations
 <223> Clone ID: LIB104-028-Q1-E1-B4

<400> 7649
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 agcagaagta cagtgaagatt cgcagacctg tctatcttcg gaggtgtgac atcatcaaaa 180
 caattccaga cttttggctg acagcgtttc taagtcatcc tcttctcagt gagcttttga 240
 ctgaagagga tcaaaagatg ttcaagtact tggaatctgt tgatgttgat gattctaaag 300
 atgtcaagtc aggctactcc atcactctta acttctctga gaatccgtac tttgaagaca 360
 gaaagcttac caagtcatat gcctttgctg atgatggaac aaccacaata aatgc 415

<210> 7650
 <211> 448
 <212> DNA
 <213> Triticum aestivum
 <223> unsure at all n locations
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<400> 7650
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 agctctgtgg gtgaagacaa cagcaagcag cgggggtcca acgaggatgg ctgggaactg 120
 tgctgaactg aagatggctg aagatcgta gggtttgctt gagtttgctc catataaata 180
 aataaaaatg gcggtaataa tcatttagaa ccgtctctat tttgtgag caaaattagt 240

gaacttgccg gacttgatcat ggaatagctt tgcccttttg gaggcgactg aatatcagta 300
 agttaaagtgt gtgctgacat gatagtata taccgagatt ctagcttaat ctatagtata 360
 aataaatgat tgggtgccatg tcaatgccaa ttttattgcc acacanaaaa accnaaccaa 420
 aggaaaaacc aaaatcaacc ccaaacaa 448

<210> 7651
 <211> 355
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-028-Q1-E1-C2
 <400> 7651

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 acggccgtgg aggcgtgagg tgacgttggg tgaaggcgct caaggcaaca acgacgacct 120
 gtcagggcag gcaagccgca cggcgagttc atggcttaga aggtgagtgt tggaataagc 180
 cagcccccac gtcctatgat ccggccggtg cgtgcatgct gatcaagcca gtccgggtgt 240
 ccgcagtcgt ggcgaagtgt agcgtgtgtg cacgctcgaa tggggcgcat ggccgggtgt 300
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<210> 7652
 <211> 402
 <212> DNA
 <213> Triticum aestivum
 <223> unsure at all n locations
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 <400> 7652

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 ctagtgtctc acttatatct tttagagcac ggtggtctct taattttgaa gaaattgcta 120
 gtctctcatg cttcacttat atatttttag agtccttttag aatagcatgg tacttgctgt 180
 ggttacaaag ttggctcctag aatgatgagc atccaagttg ggtataataa aaactatcat 240
 agaaaaagaa ttggatgtta tgatcaatat gatgcttgat aattgttttg agatatggag 300
 gtagtgatat taaattcatg ctagttgagg tgattatgaa aagtacttgt gttgaggggt 360

gtgattcccc tagcatgcac gtaggtgaa ccgctttgtg at

402

<210> 7653

<211> 331

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-028-Q1-E1-C7

<400> 7653

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catagctgtc actacctga cacaattccg gttgacggtc atcatggatc taagcgattg 120
gtggccatga aatctgatgt ctgcgtgggt gtagatgtcg ctctatatgt ttaactttta 180
tggtcctgta agtctacgtc ataactcttc tatgatgtct gctacgttta ttccattggg 240
cttcgttttt taacttcgtg atgggtgatgt ccctgtcttt atccaactta ttcacctttg 300
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<210> 7654

<211> 377

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-028-Q1-E1-C8

<400> 7654

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gggcaccagg gactacggca agacgctggc gagcacggtg tacgacatga tcaagtcgc 120
ggtggcgggc gccacggact acggcaagaa gctagcgagc accgtgtact ataaggctgc 180
cggcgtcggc acggccgttg cgagcaaggc ccagaatgtg acgacatcgg ccggcactga 240
ggtgctttac ggcgcggtc caacgataaa cactaatgtg ttgtgaactg cgccggggtc 300
gatcgtggga tcgctggaga aagtcgcctg cttggtggtt ggggttcact ggggcttcac 360
acggttctac acgtgtt 377

<210> 7655

<211> 429

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-028-Q1-E1-C9

<400> 7655

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aagagaaagt acaatgtgaa gtggaatgac gaggtcactg cggaagacat ggaggcctac 120
cgtatgacaa gagtccgcca cgacgattct aagaaagatt ttccaatta agcgttcaag 180
tcccctgtgg ttgcttgccc tatgcctgaa ccctttctgc tgcgtgtcaa ccctttgccg 240
gattgttgtc tctgtactct ctgggtgtct aggaacacgg gatgggatgg catgccagct 300
cgtgagttac tgatgttgtg agtacagat atgatcgctt gatgtccaaa ggcagaacga 360
agtttgttct catatgtcct ttgaaacctc cttcctggta accatggcat acgccactca 420
tatggatat 429

<210> 7656

<211> 400

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-028-Q1-E1-D1

<400> 7656

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ctccgtggaa agaagagaaa acccaccgtc agccatggcg aactcggcgt cgggcatggc 120
cgtgagcgac gagtgaagc tcaggttcca ggagctcaag gcgaagcgaa ccttccgggtt 180
catcacgttc aagatcaacg agcagtcgca gcaggtggtg gtggaccggg tggggcaacc 240
gggagagacc tacgccgact tcaccgccac catccccgcc gacgagtgcc gctacgccgt 300
cttcgacttt gacttcgtca ccgacgagaa ctgccagaag agcaagatct tcttcatctc 360
ctggtccccg gacacgtcca gggtagggag caagatgctg 400

<210> 7657

<211> 184

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-028-Q1-E1-D10

<400> 7657

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 aaaaaaaaaa aaaaaaaaaa aaagaagaaa ataataaaaa ataaaaataa atgcgggacgc 120
 acaaaagggtt cgatcctcac gttcgcgttc aagttacggc tcatcgcttc gttactgctc 180
 ccca 184

<210> 7658
 <211> 414
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-028-Q1-E1-D2
 <400> 7658

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 cggcggcgct ggcgcaggga actcctcggg cgattcgccg ctgctcctgc tgccgatgct 120
 ggacgacgac atctcccgtg aggtccagcg cctagatgct gatatggacc gattcatcag 180
 ggcccagagt gagcgcataa ggcagtctat attggagaaa gttcaggcaa agcagtttga 240
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 gcagaacatc aacaaaagga acctggaact cgaggaccag attaaacaaa tggcagggga 360
 agttggtgcy tggcagcaac gagctaagta caacgagagc atgatcagcg cact 414

<210> 7659
 <211> 409
 <212> DNA
 <213> Triticum aestivum
 <223> unsure at all n locations
 <223> Clone ID: LIB104-028-Q1-E1-D3
 <400> 7659

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 aaactagaca agatgcagca caacgacgat gataatgtcg actgcggcgt tggctctcga 120
 tgtgtacaga ataattcctc gctatcaggt ggtaataacg caccggaacg gacgctgttc 180
 ttgatgcgcy gaatggcaag gcaaagcatt ctttcaccga gcaatggtga ttgacgactt 240
 gattacagac aagatagatt tggcacattc ttacctgtaa agataatttg ccaaataaag 300
 ccgtttataa gctttgccac tttgataatc tcttgtactg acacaatttg aaagaattcc 360

tttgagaaca aanaattaaa aaaaaaaaaa aaaaaaaaaag cggccgctc

409

<210> 7660

<211> 424

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-028-Q1-E1-D4

<400> 7660

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gctagtgcc aatcgcccta ggttataacc gtctcatgat gaatatcatc caacaagtca 180
ccgatccaat gcctacgaat ttatcttata ttgttcttgc taagttacta ctactatcat 240
cactgttaca cttcctaaaa aactgttgct atcattgtta ccgtttcctt tactgctact 300
actattatca aaactatcat attactttgc tactgatcac gttgctgcag ataattaatc 360
tccaggtgtg gttgaattga caacttagct gctaatacct tcaaatatte tttggctccc 420
cttg 424

<210> 7661

<211> 403

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-028-Q1-E1-D7

<400> 7661

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gttcgcagtc aaacaatgtg gcaaatggca atctggaaaa cacacacgaa gtgcaggtga 120
accgaatgag cttatctcaa tacagggaca tccatagaaa gattgttgag tttatcagaa 180
agagatacca tattctggaa aactgcttgg acattgaata tgccgtgata aaaacatata 240
ctcctgttcc tgatgatctt actgaacaaa atgttcctat gggacatagc ccagctgttc 300
cagatatcag tgaagtgttg agagaacttc cccctcttgt accaatttct gccatagaag 360
tggtttctga tggctcaact gaccaagcac aactttccca acc 403

<210> 7662
 <211> 414
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: LIB104-028-Q1-E1-E1

 <400> 7662

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 aagcacgaag gggaattaaa caatgtatga gttgaagagt tactctcatt agaaggtggg 120
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 tccaatgagc tcacagtttc atcaacttct tcttccatag acttctgcaa aatattagtc 240
 tcttcttggg cagcggggta atcctcagta tatagttcaa cataggcatt agaagcataa 300
 ttatcatagc aatatttaag tatggcaaat ttttcagact tgtaaagagt agcatcatac 360
 gtttcaatca aagaagcaat ttcataagca cccttaaaag caacaaattc ctca 414

<210> 7663
 <211> 450
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: LIB104-028-Q1-E1-E4

 <400> 7663

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 gaccccgagg cagccggcga aggcgtacgg cggcgaaggc ggtgcctact acgagtggag 180
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 cgccggctgc atgtccctcc ccagctactc cgactccgca aaggtcgcct acgtcctcca 300
 aggcaaggga acctgcggca tcgtcctgcc tgaggccacc aaggagaagg tagtcgccgt 360
 caaggagggc gacgctctgg cgctcccgtt cggcgtgggc acctggtggc acaacaaccc 420
 gggggtcggc aacggagctc gtcgtcctct 450

<210> 7664
 <211> 455
 <212> DNA
 <213> Triticum aestivum

<223> unsure at all n locations
<223> Clone ID: LIB104-028-Q1-E1-F10

<400> 7664

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ccctgctgta gtgtcaagga caggatagga atcagtatga tttccgacgc tgaagagaag 180
ggcttgataa cacccggaag gagtgttttg gtggaagcaa caagtggaaa cacaggaatt 240
ggtcttgctt tcattgctgc ttccagggga tataagttga tactgacaat gccacatca 300
atgagcatgg agaggagagt cctactcaag gcttttggcg ctgaacttgt gctcacagat 360
gctgcaaaag ggatgaaagg ggccttagat aaagctacag agatcttgaa tangacaacc 420
aattccatac atgcttgagc agtttgacaa ccctg 455

<210> 7665
<211> 422
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-028-Q1-E1-F2

<400> 7665

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agagctcttg ccggacttgg tctttttctt caccocggga gcttcagcgg caagtgtcct 300
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at 422

<210> 7666
<211> 423
<212> DNA
<213> Triticum aestivum

<223> unsure at all n locations
 <223> Clone ID: LIB104-028-Q1-E1-F3

<400> 7666

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gaaccgtttt cattgttaga tttatcacct tgagatattc gaaactggat cccaagttaa 180
tagatttcca tgatattgtt tccatagaaa agttgaaaat aaaaaaaatc caaaagagtg 240
aatacccaaa aaacaaaatc caaaaaaggc caaaaattgg ttcattgcaa aaaaatgatg 300
aatactgaaa aaagaaggaa aatattgaat catggaagaa cggtttgcag ttttgcactt 360
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ttt 423
  
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<210> 7667
 <211> 292
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-028-Q1-E1-G10

<400> 7667

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gttactggta tatcgagaat gcttgctcta aatgatggat atggtaaga ggaagggatt 180
gacgaggctc tcaaagtaca tagctagtga ttaccatcag catccaacgg aatgatagtc 240
cttcgttaac accgatgagg ttcattcaatg aatggtatat gtacgcatct tg 292
  
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<210> 7668
 <211> 401
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-028-Q1-E1-G4

<400> 7668

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tcgtcaacat gtgccatttg cttggaagac tacagtgttg gtgaaaagat aagggtgctg 180
ccttgctgtc acaagttcca tgctgcttgc gtggacctgt ggctcacatc atggaggaca 240
ttctgccctg tatgcaagcg agatgcaa at gctggaatgt caaatttccc tccatcagag 300
tctacccctt tgcccttctt tgctattccc ttgccagctg aatcgacagc tttgtcttct 360
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<210> 7669
<211> 405
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-028-Q1-E1-G8

<400> 7669

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cccaatgccca tgaatgctgc tgaaataaca gataagcttg gtctacactc tttgcgtcag 120
cgacactggg atatccagag tgcttgcgcc acaagtggag agggctctata tgaagggttg 180
gactggctct ccaacaacat agccagcaag tcctgaaggc ttccaatgga ttggcagggc 240
cgcagaagca actagcggct ggacaaatga ctggaatatg taggcatgtt aaaatgctgc 300
cagagtgttg acatgtcttt gtaagctcga tctttgagct gttatcacac tgctactatg 360
ttgtatcaat gattgaatgt acacacgatg aaacccttta tgctg 405

<210> 7670
<211> 356
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-028-Q1-E1-G9

<400> 7670

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gacactggta tatccagagt gcttgcgcta caagtggaca gggcttagat gaagggttgg 180
actggtcttc caacaacata tccagcaagt cctgatcgct tcgaatggat tggcatggcc 240
gcagaagcaa ctagcggatg gacaaatgac tggaatatgt acgcatgtta aaatgctgcc 300

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<210> 7671

<211> 434

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-028-Q1-E1-H10

<400> 7671

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gagtacatcg acgccaccaa ccggcgcggc gacctcacct acgagctcgg cgagaatgag 180
ttcgccgacc tcaccagga ggagttccta gccaggtagc cgtcgctccta cgatggggtc 240
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ggcgccgaca atgatagctc cttggaggct ccgcctccca gctgggactg gagatccaag 360
ggcgccgtca caccggtcaa gtcccaaagc gcaggatgcy ctacctgctg ggcgttcgtg 420
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<210> 7672

<211> 380

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-028-Q1-E1-H12

<400> 7672

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atcaataaac aaattttcca gaacttccta ttttggtagg attttttagag ttccagaagt 180
ttgcgttagt tacagattgc tacagactgt tctgttttta acagagtctg tttttcaagt 240
gttgtttgct tatttcgatg catctacggc tagtaaaata gtttataaac catagagaag 300
ttggattaaa gtaggtttta caccaaaata aataaagaat tagttcatta cagtacctta 360
tgtggtggtt ttgttttcct 380

<210> 7673
 <211> 411
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-028-Q1-E1-H2

<400> 7673

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aactgctgcg caagctgctg agcaaggctg tgagaccggc ctagcatgtc ggtcatagct  180
tccagggtga gctgttttagc gttgaggttc tcattggtgt tctccgcaat ctttcttaga  240
gataggactt caagtcaaag ttgagttgca gaatgccttt ctgctagaac ttgggactga  300
agaagtcgaa ctgattcaga caacaaattc tgtgagcttg tctgactgct agtctcaagt  360
aacttgaaca ctgcaacagg acaagacttt ggggttgtct cgctatcttc a           411

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<210> 7674
 <211> 429
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-028-Q1-E1-H3

<400> 7674

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gcacttcact tataatctttt gagtatggct ttatagaatg cttcatgtgc ttcgcttata  180
tcatttgaag tttggactgc ccgtttctct tcatatagaa aaccgccatt tgcagaaaga  240
tcttttgctt cacttatatt tgttagagca tgggcatatc tttttagaaa agaattaaac  300
tctcttgctt cacttatatc tatttacaga gttgacagga attggtcatt cacatggtta  360
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aataattttt                                     429

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<210> 7675
 <211> 443
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-028-Q1-E1-H4

<400> 7675

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tcaacgacgc cgtcttcacc gacagcggcg gcccaccca gaggaagttc gagaaggacg 180
acctcatccc gcccaagccg ggatcgtacg tcaccaggct cacacgcttc gccggctgct 240
tgccgtgcaa gcccggaag ccctgctaaa cctaagtggc cccgccggcc ggccggagcc 300
gatcccttcc gaatcttcaa ttattgcttt gttcaattct ttactcaaa gattcgtgta 360
tgtattatgt attactagga catttgagta gtctacgggg gtcaagtccg aggaccctgt 420
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<210> 7676

<211> 357

<212> DNA

<213> Triticum aestivum

<223> unsure at all n locations

<223> Clone ID: LIB104-028-Q1-E1-H8

<400> 7676

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ggcagtggcg cagtcattggt ttagatatga aagttttgga caccgagcgg aactcagtcg 120
agagcttata tatgaaaact agtgagagag agaagactat atttatgcaa ttagaagaga 180
actatataca ttgtttttcc cctaagctca ataaggtctg tgccttttgt ggactgcgtt 240
tcttctttgt agagacagaa catataatac tgaggattgc agtcaaatgg aaattaaatt 300
caggtttgat actttaataa aaataacagc anaaaaaggg ggagagaaaa cgaaaaa 357

<210> 7677

<211> 284

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-028-Q1-E1-H9

<400> 7677

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tcttccatca tacttctcca tgcagtggca cactgaaggt gtacagatgc ttcacgggc 120
aacaatgtgg aggctgtcgt gtgctcatat atatgtaaca tctctagata cgacacaata 180
tttatgccat ctataactat cacaagagat agtattgtct cataagctct gtaaggactg 240
atgttctccg tcgattgggt ctattctgtg tagcaacatc atac 284

<210> 7678
<211> 397
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-029-Q1-E1-A10

<400> 7678

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ttgatctgga ggatgcaaca tcagatataa cggctggcga tctcaagaag gtagtgaaac 120
ggctgtgtcg cctcaagttc ctctctctcc gagggcatac tgagatcgat catctaccaa 180
gttcattagg ggatctcagg cagctccagg ccttggacgt cagggacacc tccatagtga 240
ccctgcctgc gagcatcacc aagttaaaga agttgcagta cattcgtgcc ggccgtggca 300
ccaccgtctc agcactacct gcttcacct gctggttgcc cgatttctgc aagtgccgtc 360
aactagttga tgttcaagtg cccggggaaa ttgggaa 397

<210> 7679
<211> 415
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-029-Q1-E1-A12

<400> 7679

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actagatttc gtgcactttc caaccaatt ggaatcacct tcaaattcgt ccggagcggtt 120
gagttgtgca caaaacaatt tgatgctgca gcagaatccg agtcaaacta caagtccaaa 180
ggtgttacat cacctccact tgggcccatt agccttgat gacctaaggt tagttttagg 240
ctgccttggg acgtcctccc acctccttgg ccgccacccc ttctctctat ataagtagat 300

ccatctagta gctttttcct tgggatttgt ttagttaaaa gttagccatt gcaacttcgt 360
gtacttcggtt tgtgtccaac gaccagacca agaccactta cggattccca acctt 415

<210> 7680
<211> 236
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-029-Q1-E1-A2

<400> 7680

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gcattccggg ttccgtatcc agtcttccgg atatcgcggtg agtgtcttcg gatctatcac 180
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<210> 7681
<211> 435
<212> DNA
<213> Triticum aestivum

<223> unsure at all n locations
<223> Clone ID: LIB104-029-Q1-E1-A3

<400> 7681

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ggctccgttc ggtgctcggg acggatgaag acgtccgtgg cgggcctcca ggacgtcttc 120
ccacgcgaag gcgacgacgg tggtcgcggt aatgacgatg acaagcgcgg tcaccgtgag 180
agtttccaag ctggaattcg agcgaaagaa gaagggggcg actggggaaa gaagggggaa 240
tggacgaggg cggctagggg ttctggttga cgcggttata ggccatgggg gagcacgtgg 300
aggccatcca tggccacggc agccgtggga tggatgccat gacctcctct gaacgggaag 360
aangggattg ccgttaagtt ggccctggact atgcactgta ccagtgggct acaagtgcac 420
agtagtagtt aggtc 435

<210> 7682
<211> 440
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-029-Q1-E1-A5

<400> 7682

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ctaccgggag ccaaggtttt acaccaaggt gttaaggaa tgccactcct atgaccaaga 180
tggaattcc tttagctttt ctctggtaac ttccaagtgc attggagctt atgtgaagag 240
caagaagaac cagaaccaga tatgttggct atgggagaag gtcaagtgca cagaagacaa 300
aggctttcag agattcctgg acaatgtgca gtacaaatcc actggaatcc tgcgttatga 360
acgcttgttt ggggaaggtt tatttcacca ccggtggatt cgagaccaca aaagaatttg 420
tggaacaagct ggatctgaaa 440

<210> 7683

<211> 461

<212> DNA

<213> Triticum aestivum

<223> unsure at all n locations

<223> Clone ID: LIB104-029-Q1-E1-B1

<400> 7683

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gcatccaaaa cagacatatt gtatacgaag aatgttcatg ctgccaagag aagtgaagac 120
attgcccatt tgtcccctgg atgggcgtgt aactagagaa caaaacacta tggcggcaaa 180
cgagactatc gaaccgaact gattgtactg aaaactagga cctaaacttg tgctgctggc 240
caaccttttc ttcagggaat gccagatat tcgccaacaa aagccatagg atggtgctat 300
acacagagga caacctatca gcaagtcggg ctccagtgtg tttgggtcag cgtccacgga 360
ggagcagata actgacgaca ttacgnctg ccgggttcac aatcctcatc acacatgacc 420
acaaccacc caaccgactg ttacaatggg cgtggagctt c 461

<210> 7684

<211> 388

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-029-Q1-E1-C5

<400> 7684

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gataataaga tatatcttct cctgtatggc aaaacttttg gggctcctga tggcaaacct 120
gtttggcatt tcccagaaaa agtgtacgaa aatgaagact ctttgcgttt gtgtgccgag 180
tcagccctaa aatctgttct cggcggactt gacaatacat attttgttgg caacgctcca 240
atggctcaca tggtaactga acaaaaagag gattocagtg tttcaccatt caagcggttc 300
ttcttcaagt cgcaagtgat cggcaccacg catttggaaca tcaggagggtg cgaagaccac 360
gcgtgggtga ccaaagctga gttgctgg 388

<210> 7685

<211> 398

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-029-Q1-E1-C9

<400> 7685

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accacatcca ctaagtcagc tctatctctc tactactgca actaactaac tgtgatgatc 180
ttctccaggt tttttggctg gatactgaga tggcaccatt gtgctgctga agttaaacc 240
tgtttattgg gacgtacaag cggggcggca gcacacatgg cggcaggaga caagccatat 300
tttaccatg actgctgcta ggattgatgt cctattgccg gagaaacaat ggcaacagtc 360
gcaccgtttt ttcttagttt ctttccaagg cactcaat 398

<210> 7686

<211> 344

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-029-Q1-E1-D12

<400> 7686

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tctctcattt tgagtccctg tatgagcaac ggtacaagaa gactctcgac taccaaagct 180
gtggagttga tggctctggag gaactgctta acaagttaaa agatgttgtc gaattgaatg 240
tatatgagat cagcaacatg aaagtcatca aagccaagtc accaaaatgt agtccctcaa 300
agccatgtta aatagtgggt gtcctaatat cagtagtata gtca 344

<210> 7687
<211> 448
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-029-Q1-E1-D4

<400> 7687

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catgagcatg cagcttggca atggtgactt cccacaggag gaaatgattg gaagtttctt 180
gaaaaatggt cccttgtgtt atatggctta tcgcaacata ttccccatat gggcccttgg 240
agagtatcat agattagtac ttgctctgg ctaaactagt accttctggg atgaaggaat 300
taaatgtcgc tcctctgctg gcaatgctga aagagcgatg tcttgattta catgtcttga 360
agaaagaaac aagaagatag tcgtgttatt ataagggtgg gtgaatacct gaagttcata 420
cataatagta taagactatg ttgtaatc 448

<210> 7688
<211> 323
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-029-Q1-E1-E1

<400> 7688

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ctacctatta tggcatttcc atagccattc cgagatatat tgccatgcaa ctttccaccg 180
ttctgtttat tatgacacgc tccatcattg tcatattgct ctttgcatga tcatgtgggt 240

gacatcgtat ttgtggcaag gccaccttca taatttttca tacatgtcac tcttgattca 300
atgcatatcc cggtacaaca acg 323

<210> 7689
<211> 401
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-029-Q1-E1-F12

<400> 7689

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agttagtgc agatgatgtg aagagcacat cagagagttc attggaggag cctagcacgg 180
aggaattcca ggaggaagat gtctctgatg gagattcaga ctgcaacgac gaaagtaagg 240
ggccggaagt aaggcttttc atcagcggag tagttcataa taaagaggag gctggagcaa 300
aatcttatgt tcgagttccc gctgaaataa ataacctgga aagggactcc tttgaactct 360
acatccctgg aaaaggttct gatcgggatc tgagtgaac a 401

<210> 7690
<211> 457
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-029-Q1-E1-F6

<400> 7690

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cgggagtggt ttacatcac tgaacctcgc ggcaaaaagt gggtagctac acctgcattc 180
cattatgtcc ctccattaca acttgcattc tggattaata agggggccaga ctgggtatcc 240
gttgataaag tgcagacgct gcaaagccgc attcggagcc tcattgaaaa ggacaccggt 300
ctcatcaata taatccaagt aatgttagtc cgtcgggtcc taccgtgtca gcgacgtcct 360
ctctgcatgt gggaattcaa tccggaagga ccgtgaaccc ttcaaacact ctctggcacg 420
acgctccgag ggggtgtgaa attattcttc ggcgcac 457

<210> 7691
 <211> 393
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-029-Q1-E1-G10

<400> 7691

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 cggatactag ccattttctc gtgaatgagg agcggagtc actcctcttg agaataacca 180
 gcctaacacg gaagataagg gcaactctag ttgacatatg agctattcga gcatgcaaaa 240
 cagaatgttt atttgaaggt ttagagtttg gcacatacaa atttacttgg aacggcatgt 300
 caataccgca tataggaagg tatagtggac tcatatggaa caactttggg gtttaaggag 360
 tttggatgca caagcagtat tcccgttag tac 393

<210> 7692
 <211> 394
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-029-Q1-E1-G12

<400> 7692

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<210> 7693
 <211> 414
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-029-Q1-E1-G9

<400> 7693

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ccaactgttt tttttagcat cagtacagac acaagcgctc atatacacgc gcatacactc 180
accctatga acgcacacac gcacacctta cccctatgag cacctccgaa agacggatcc 240
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ccattttctg cagtctgcac cacattttat tgacctgcat tgtatttgta tgttgggcct 360
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<210> 7694

<211> 375

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-029-Q1-E1-H12

<400> 7694

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gaggggtggc cgacttacgt gccaccacat gcttcaccca ccactgaagc cgtgactgac 240
cggatctctt gtgacggcga gcggcgggga gcaaagatgt tgcggggggc aaccgatatt 300
gagttgcccg ctgccacaga aggacaccgc gaatgcacgc gcaaaagtgc gtcgccccgc 360
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<210> 7695

<211> 447

<212> DNA

<213> Triticum aestivum

<223> unsure at all n locations

<223> Clone ID: LIB104-029-Q1-E1-H4

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gatggtgatg aggagaaggc gtgcgatgcc caggagcgag cagccctctg aagctgggcg 120
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 gaaggcaata gcggtgatg ccgctgtggt tgagggaact ggaggtgcga ctgaagcttg 360
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 ggaggctgta ngaggtgcga cagaatc 447

<210> 7696
 <211> 355
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-029-Q1-E1-H6
 <400> 7696

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 ttgttccgaa cagaactcat ctattatcag tgttccgttg tcagtgtgta gtttactctg 180
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<210> 7697
 <211> 312
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-029-Q1-E1-H7
 <400> 7697

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 agatgaagaa gaggaagagg aagaagaaga agacgaggaa gagaaagaag aggaagagga 180
 cgaagatgaa gaagaatagg aagaagaagg aggagaagga gaagaaggag aagttggagg 240

agatggagaa gattggagga gaatgagaat atcgaggaga aggataagaa ggatgagaag 300
gagaagaatg ac 312

<210> 7698
<211> 438
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-029-Q1-E1-H8

<400> 7698

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gcaaccaagg acacatattt gattttattc aaccaactta tatgcattag agcatgtgca 180
tgtatttcaa atttgaatta tgcacataaa tgcattgaaa acacagttaa tgcataaaaa 240
tgtccaaacg aaccccgaaa aatcccaaaa attgacacaa cactcctgtt gttctatgtt 300
agcacgagaa attttttgaa agcaataaga gccatggata tcatttcgtc cccaaatgtg 360
ggacgtttcc ctacagaacc atcacacttg ttgtgagaag ctctgctttg tgagaagcat 420
atccccaac ctgcctca 438

<210> 7699
<211> 408
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-029-Q1-E1-H9

<400> 7699

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ttccatggcg tccccgcgga ggagcggctg cactggcgct ccttcctcgt caagctcggc 180
gccgagaacc tcaagggcgc caagtccgag gagctcctcg tcgcctcca caagtcggtc 240
tccattgtgt ataccatgat cggggacgtc tgcctgtaca ttgttgcaa ggatgaatat 300
gatgagcttg ctttggtgga ggtgatcttc gctgttacgt cggcggtaa ggatgtgtgt 360
gcgaaaccac ctaccgagcg cctcttcttc gacaagtatg ggaagatt 408

<210> 7700
 <211> 390
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: LIB104-030-Q1-E1-A12

 <400> 7700

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ttttcctacc aatctattcc cctaggagca tgcgtgttat actttgcttt gataacttct  180
agatttttgc aataagtata tgagttcttt atgactaatg ttgagtccat ggattatatg  240
cacttttccc catccttcca gcattgctag ccactctaata agcgcgcact tttttgccgg  300
taacatacac ctaccatata gcttctcaa aacaggcacc atacctacgt atcatggcat  360
tcccatagcc attccgagat atattgccat                                     390
  
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<210> 7701
 <211> 393
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: LIB104-030-Q1-E1-A3

 <400> 7701

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ttgaagaagc ttggagtgc catgaagaat gatgagaagg acttgatggg caaggctctc  180
atgaagcgtg tgatgcaaac ttgggtgcct gccagtcgtg ctctgcttga gatgatgata  240
tttcacctcc cctctccttc aaaggcccag aggtaccgtg tggagaactt atacgaaggc  300
ccccctgatg acatatatgc aaatgctatc agaaactgtg accctgatgg tcctcttatg  360
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<210> 7702
 <211> 434
 <212> DNA
 <213> Triticum aestivum

<223> unsure at all n locations
<223> Clone ID: LIB104-030-Q1-E1-A5

<400> 7702

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ctttaatcgg tcgtcgtaca gaacatacat atgcatgcgt ggacgcccatt tgtgcacgctc 180
cacatcccc gaaagatgca gagggtgcaga cgaagagaac ttgaagaaga aagtgatttt 240
gatcgactgt tgttggtttg accaagatga acttacacct ggccatggcg cagaggccgg 300
atcgcaggcc taactctcaa gagctctgat gtgaggtgaa attgaactga actcaactcc 360
attgtgctca ttcatacaggc cagtcagtca gagagtcngc gtcaacgtac cctagctagc 420
tgtccctagc cacc 434

<210> 7703
<211> 443
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-030-Q1-E1-B2

<400> 7703

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catgcaagcg aatgacatgg taatgatggt gaataactgg aagacacctg gcgcatcgga 180
ctcggggcgt cacaactctc ctccactaac aaaagatctt gtccagagat cttaggaacg 240
agatggaagt gaaagagggt gaggtaaaac aagagctgaa gagagaagaa gaacaaagtc 300
gagaacactc gagggtgaaa gaggaatgat gaatatgatg agaatacaag ctcaaggatt 360
aaaatatact ctgaaaccac tcctgttaga acaagatata aaaggaataa gaatgaaaga 420
actgtgataa catctcggtt gga 443

<210> 7704
<211> 386
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-030-Q1-E1-B5

<400> 7704

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aaaaaaaaa agaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 180
aaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaggggcy gcccaaaagg 240
ttcaaatacta attaacccctt aaaggaaagt taaaaccctt tcaaaagtgt aacaaaattt 300
aatttaatgg gccttctttt aaaaagttct taacgggaaa aacctggggg taaccaaatt 360
aaaccctttt aaaaaaaccc cccttt 386

<210> 7705

<211> 435

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-030-Q1-E1-B6

<400> 7705

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tgtttaaaaa caaaaaata aagaggggaa cctaaaactt ttcaaaagg aaagtgaag 180
tgagaaagac aagcattgtt gaagtgggag ctagctttga actttgttca tggtcacgta 240
aactttgtga atcttgatta cagaaacttt tcatcaaaaa aaattatccc cttgtacaat 300
tccattgtat tataaaaaata atgtgctaag gtttgctttt aggatgttta caatgcttgt 360
tggtttgtac ggtgcaggac agaaactttg gctgtagtgc gcgattttta gttttatatg 420
gaacgtcaaa tggtt 435

<210> 7706

<211> 447

<212> DNA

<213> Triticum aestivum

<223> unsure at all n locations

<223> Clone ID: LIB104-030-Q1-E1-C1

<400> 7706

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ataattaata gttcatcaca caattgaagt ataaagcaaa aactctatta aaaaccaaca 180
aactatgttc tcagtcaact ttgcaactac aattcatcat gttttcagga aggggtcgcat 240
atcggagcct ttaggcaagt ccacatactc aaccatcata tagtcttcta tgattgctaa 300
cactcacgcg gtacacatga gcaaaacatt tcaaccggac acatagaaag attggggcctt 360
atagtttgcg ctcccagcgt attcacctca aggggtgatgt caacanttat tattcatgct 420
atctatattc aactggacat atgtgcc 447

<210> 7707
<211> 412
<212> DNA
<213> Triticum aestivum
<223> unsure at all n locations
<223> Clone ID: LIB104-030-Q1-E1-C2
<400> 7707

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aaattacgaa aacctgggaa atttgtatat caaacttttg ttaaaaaatt catatcaaaa 120
gcacgtttct gagatTTTTT taaaattgtt ttaccgagcg caaaagtTTT tgtttttcag 180
caagatcaaa tcaactatca ccgtaagcca tccaacgggt cttacttggt tcaaacacaa 240
attaaaacac caaaacacaa ttactactgt tggcaatcta ngaacngtgg tcncaacacc 300
tgctgcttg cgccccgagg cgtggctcct ccggcgggcc tgtacgaccc atcttcacca 360
gcaaacattc aagaccctcg cgagggggcca agcctcacga ggcaaacgtc gc 412

<210> 7708
<211> 437
<212> DNA
<213> Triticum aestivum
<223> Clone ID: LIB104-030-Q1-E1-C5
<400> 7708

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gtcggagcag gacaatagcg gatacttccg gtacgtcgcg ccgtgcacct tctacggctc 120
 gcccctccca aaagaggaaa agggacagga gaagaagaag aagaagccgc ctcagttcat 180
 gctggtgttc atgtgcgtcc cgggtgtctcc agggaaaagc agggatgatct gggcggttccc 240
 gaggaacgtc ggcgtctggc tcgacaaggt cataccgcgg tgggtactacc acatcggcca 300
 gaacgccatc ctggactcag acatctacct cctccacatc gaggagcgca acttcgccgc 360
 ggcgggcatc gaaaactggc agaaagccgt gtaggtgccc acgtcgtcgg acaccatggt 420
 gattgccttc aggaact 437

<210> 7709
 <211> 237
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-030-Q1-E1-C6
 <400> 7709

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 ttcttactca aacggagctt acgaaatatt ctgttcaagt tttgttgtgt gtagttttca 180
 tgtcatttgg gtagagaatt gatgtaattc attttaaaga atggattgag cctagcc 237

<210> 7710
 <211> 285
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-030-Q1-E1-C8
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 aattaggtaa taataacact gcaaatcttg aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 180
 aaaaaaaaaa acgtaaataa aaaaaataa aaaaaaaaaa attaaaaaaaa aaaaaaaaaa 240
 caatgaaaaa aaaaaaaaaat aaaaagagat gtcacgatag ctacc 285

<210> 7711

<211> 455
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-030-Q1-E1-D1
 <400> 7711

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 gggaggcaac cctatTTTTat ttttgttatt tacttttggc tcatgtttag taataaataa 180
 ttcatatagc ctctggttag atgtggTTTT aagttttaat tagtgtttgt gccaaagtaga 240
 acctttggga agacttgggt gaaagttaat gcgatcttgc tgtaaaaaaac agaaactttg 300
 cgctcacgag attagatgta atTTTTTTta tagaagagtg atTTTtaagtt gattatTTTT 360
 gcaaaagatt catagtaaaa ttctcatct ccaccaattt atTTTataat ttttggagtt 420
 acataagtat tcgagagtta cagattccta cagac 455

<210> 7712
 <211> 380
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-030-Q1-E1-D10
 <400> 7712

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 aataggatct atggttcgat gcattttcac ctcttttgtc ttttctata cgacacagta 180
 aaaatccagg tggcatagcc catcggccgc tctttacgcy tgccttattg ttatggattt 240
 ttatctcata tgtaaagtta tatgctacac tccaatgaga caacaatttt atgggtctttc 300
 aggtattatt taacatgtga cttggatcag tcttatttca tactatcagt ttacgggcta 360
 cagaatgaag caattaaaga 380

<210> 7713
 <211> 435
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-030-Q1-E1-D5

<400> 7713

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agtatcaagc atctaagatt ggggatgccc cggtaggcat cccacctttc ttcttcaaca 120
actatcggtt agtatcggtt gagcctaagt ttttgcttct tcacatgagt tgtgctatcc 180
ttgcaatgta gttttattta gctttgcttg ctgtttgaat aaagtatcaa gatcagaaat 240
tattaaatga gagagagtct tcgcatagtt gcataattat ttagctactc attgatcctc 300
acttatatct ttcagagtag tttgtcattt gctctagtgc atcacttata tcttttagag 360
catggtggta gttttatttt gaagaaatag atgaactctc atatttcact tagattattt 420
tgagagtcgt taata 435

<210> 7714

<211> 400

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-030-Q1-E1-D8

<400> 7714

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agcgccggct ctgggcgtgg gatgacgtcc tgggggacct cccaccgctg atgatcggcg 180
tcggtgatgc gcacgtggag ctggttgctc gtctctaggc tgcccccggt catatcaaaa 240
ttaatacaat gagcatacga gttgtgtgca ttatgctggt tgtaatgggg agtatcatat 300
actagtatca tgcatatgat actagtgtgt gatactacct tcgcaatgca tagtatcata 360
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<210> 7715

<211> 361

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-030-Q1-E1-E12

<400> 7715

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 gttgtacctg agaggccatt cctttcattg cctaggaatg attttaagtt ggtgcatttt 180
 ggatgcaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 240
 aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 300
 aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aacaacaaaa 360
 a 361

<210> 7716
 <211> 420
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-030-Q1-E1-E5
 <400> 7716

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 gttccacggc aaatgcgtgc ggataacccc ggccaaagcg gatcacataa agcactacag 180
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 cggctagcgg atgtggattc ctctagaaac tgtgctccct cccatgtggg agtctcctag 360
 ccgtaggtgc tgtgaaagac tgatacatag ctcatactct cgtagcatta tacatgtttc 420

<210> 7717
 <211> 380
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-030-Q1-E1-F12
 <400> 7717

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 gttagttaca gattgctaca gacttttctg tttttgacag attctgtttt tcgtgtgttg 180

tttgcttatt ccaatgcac tatggctagt aaaatagttt ataaactata aggaagttgg 240
aatacagtag gtttaacacc aaaataaata aagaatgagt tcattgcagt accttatgtg 300
gtgggtttgt tttctttcac taacggagct tataagattt cctgttgagt tttatgttat 360
gatgttttca agttttgggt 380

<210> 7718
<211> 443
<212> DNA
<213> Triticum aestivum
<223> Clone ID: LIB104-030-Q1-E1-F4
<400> 7718

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ctgaagggtt acaaatcagg tctttgcaaa agatccaaac tccaggagat aataaaccaa 180
ctccattttt catagatact gctccagcac agagaaaccc aactcccact gataataagc 240
agatttcaat ggccaaagaa ctagtccgct ccagtccagc aaaagaatgt caactccatt 300
ctaagaagcg tgtgcgtatc ctgcgcatcat gaaattttat accattctta tcatattttc 360
tacatgtttc ttaccogtct ctctttttaga aaataagggt aaacgataca agacttcctc 420
cattgggatc gtattcgagg aaa 443

<210> 7719
<211> 433
<212> DNA
<213> Triticum aestivum
<223> Clone ID: LIB104-030-Q1-E1-F7
<400> 7719

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cggcgctctc catgacgagg agggagtagt tcaccctcgg ggctgagggt atgtaccagt 180
agctacgtgt ttgatctctc tctcgtgttc ttgaggtggt acgatcttga tgtattgcga 240
gctttgctat tatagttgga tcttatgatg tttctcccc tctactctct tgtaatggat 300

tgagttttac ctttgaagtt atcttatcgg attgagtcctt ttaaggattt gagaacactt 360
gatgtatgtc ttgccgtgct tatctgtggt gccaatggga tatcacatga ttcacgtgat 420
atatgttttg gtg 433

<210> 7720
<211> 385
<212> DNA
<213> Triticum aestivum
<223> Clone ID: LIB104-030-Q1-E1-F9
<400> 7720

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ctgatgtgaa ggaggccgca ataagggcag aggaaaaggg aggggaggat aagctgaccg 180
tcgaggaaga gaagaaggac ggcgaagaac aagaaccagc cgtcgtccg gtcgagtcac 240
cgtctagttg aaattgagat gtgagatcgt gcatgccaac tcggatgtat tgggtgcgtgt 300
atgaaccact gaatgtacag tttgctctct tcctttttct ttttcagcca aaaggatcct 360
tccccaatgt aaaaagcttt gcgtt 385

<210> 7721
<211> 390
<212> DNA
<213> Triticum aestivum
<223> Clone ID: LIB104-030-Q1-E1-G10
<400> 7721

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gatacccaaa taacttatgg cgctcctcta ttattcggtat ttttctgacg ccgaattcaa 120
tcatgcagtc tgccaaggc tcagcttggc gattcgtcga gcggctcctt ggattcgtcg 180
gatgtgaata gtgcttcact tccgacggct tcctccctgc tccctgcgga cgacgccgag 240
gtggagtccc aaaagggact aaaccaggag gaggttggtc tggagggtgcc gcaaggcatc 300
ctcctggact ccaggcccaa agggggtaaa gcccagtggt gatctaagtc cggccctggg 360
ccggacactg ctacagaacc atcaacgggt 390

<210> 7722
 <211> 404
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-030-Q1-E1-G11

<400> 7722

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tccatcatga tgtgatacgt ctccaacgta tctataattt ttgattgctc catgctatat  180
tatctactat tttggacatt attgggcttt attatccact tttatattat ttttgggact  240
aacctattaa caggaggccc agcccagaat tgctatTTTT ttgcctgttt tacgggttcg  300
aagaaaagaa atatcaaacg gagtccaaac ggaatgaaac cttcgggaac gtgattttct  360
caacgaataa gaccggggag acttgaacc tacgttaaga aaga                        404
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<210> 7723
 <211> 352
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-030-Q1-E1-G12

<400> 7723

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acgttgacta atggagccgg cggttggctg atgtgagttg gtgcgcgtgc ctccatcgat  180
cgtcatgtgg acggggtcac gacggccggt gtgcccgcca gccgcacgc acttgcat  240
ttctatgggt ggtagagaa ttgacaccgt cacaccgcca cgcagcgagt cttccggtgt  300
atgtaaaaaa aagtcgtctc tttgttcttg accgagtgcc cattgagatt tg          352
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<210> 7724
 <211> 391
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-030-Q1-E1-H11

<400> 7724

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ccacttgttt taccatctct tcgcogaact agtgcaccta tacaatttac cattgtatcg 240
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<210> 7725

<211> 384

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-030-Q1-E1-H12

<400> 7725

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tgagagctg ggcgggggg cggtggccaa actcggagtt cgtcgctcgg cagtaccacc 180
ccttctcggg caagttcagc ctcaacatgt tccggtggt gtggaggacg gcgttcgtga 240
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gcgcgctcgg cttctggcgc ctcaccgtct acttccccgt ggagatgtac atctcgaga 360
gcaagatgaa gaagtactcc agga 384

<210> 7726

<211> 445

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-030-Q1-E1-H2

<400> 7726

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aagctagcca tcgaggggaa gaaggggaag cagcaaccac aacaatctgg gcctgccggg 180
 caacagcaac catagatgct ccaggggtggc ccgccggaca tgacgggttc tgggcttggg 240
 ctaggtggag cgcagatggg tgggcaatat ggtggccctg ggaatggtat gccatcgttc 300
 ggcgcatttg gtggtcccaa cccatatgcg aacatgccat cgtccatgag tggcgggtgg 360
 ggagctgggt tgggctcaat gggaaatcag atgcattccc ggaatgggtt ctgctggggc 420
 tgggtgcattt ggcaccggcg ggctg 445

<210> 7727
 <211> 368
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-030-Q1-E1-H4

<400> 7727

tcgacgggct atgggaagag ttcacctttt gaggatttga cgacagaaaa tctaagggtc 60
 ttgtcgtcga agcaggcttt atctgatttg gctgttttcc gccagtatta tcaggaaaca 120
 ttaaatacca agtataatcg ctcaggagta gacaattott ggtttgtgtt tggagggtcg 180
 tactctggag ctctcagtgc ttggttcaga ttgaaatttc ctacttaac atgtggaagt 240
 cttgcaagtt caggggttgt tcttgctgtt tacaacttta ctgacttcga caaacagatt 300
 ggggagtcag ctggtccaga atgcaaagaa gcacttcaag aagtaacaaag gcttgttgat 360
 ggacaact 368

<210> 7728
 <211> 410
 <212> DNA
 <213> Triticum aestivum

<223> unsure at all n locations
 <223> Clone ID: LIB104-031-Q1-E1-A10

<400> 7728

attccccggc cgacggggaa gagtatcgtc agcacgacgg cgtggtgacg atcttgatga 60
 actacagcag cagggcttcg cctaaactcc gctacagtat tatcgaggaa tatggtggca 120
 gggggcaccg cacacggcta aggaatcgat cacgaggatc aacttgtgtc aacttgtgtg 180
 tttagaggtg cccctgcctc cgtatataaa ggagtagagg gggggaggct ggccggccat 240

agagggaggc gcaggagagt cctactccct ctgggagtag gattcctccc cccaatccta 300
 gtccaactag gattcctcgg aggggaaggg agagaggggg gccggccacc ttctcctagt 360
 cctaatagga ctangggaag gggaagangc gcagctacct ttgggctgcc 410

<210> 7729

<211> 413

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-031-Q1-E1-A11

<400> 7729

gcccgggccg acgggcgggg ctgtcttgaa gagttgtatg cagcttcgcc atacacctcc 60
 ttcatcaaca acgacatcct ggacatctgt gcgagacaga aaaaattaag acttgaaaat 120
 acgttaaagc acaccacgca cgtggaatga aaaaaaggaa aaaaaagtga aacacagacc 180
 acatacaatt tcgacacgtt ctccatggag tcggttcctt gaaaggttac gccctgtata 240
 tctccacgag tcatggatat ccagggactc acgatacttg ttcatagtgt acagtgtgaa 300
 atgattccga ttccaatatg gtagcatgat ctatcaacat gtgaattaga cgacaaagaa 360
 gagcataaga agttagctac aagatgtctc agcagtttag aagacaacac tac 413

<210> 7730

<211> 384

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-031-Q1-E1-A2

<400> 7730

tcgagggacg cgtttcaaaa gctgaggctt tattacgaga caaagaggaa gaaaatgtga 60
 tgctgaagca acaattggaa cagtatgaga ataaatgggc agaatatgag actaagatga 120
 aagttatgga agaggcatgg aagaaacagc tctcttctct gcagttgagt cttgtggctg 180
 ctaagaagag cctagctgct gatgacatgg tcacccgagc agctcggact gataccactc 240
 caacacatgc tcaatacgac tctgaagata caatgtccac agggacccat accccagaag 300
 ggacagagtt gaaataccaa aaccacaacc ctgaacctag agtggtgaca ggaaactcag 360
 ataggcgaat aaatgctgtg aatc 384

<210> 7731
 <211> 415
 <212> DNA
 <213> Triticum aestivum

 <223> unsure at all n locations
 <223> Clone ID: LIB104-031-Q1-E1-A4

 <400> 7731

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cggtcgagat agccgggtcg accggggcgg ataccaaac catcgacta tataataata   60
aggaataata aaagtaagaa aattagacaa gtatcaatcg caagtaagaa tttttttcct  120
ttcagaaaga agataagaac aagaggctca ccacgggtgg gccggcaacg aaatcggcgc  180
gggcgatcga cggcgggtgaa gacggggacg agacgtgacg gaccgctaaa cctagaaaaa  240
tctcggcgaa aatggagctc ggaggtcgag tttcgagaga agaaatatta actactgtgg  300
ctcggacatt tcacgaaca cctcatgtgc atangagggtg agctagagca cccaaatgcc  360
ctcccctcgc cggccagcaa aaaacagagc agtgtggagt gctttgctcg ctgac      415
  
```

<210> 7732
 <211> 418
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: LIB104-031-Q1-E1-A6

 <400> 7732

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attcgcgggt cgacgggtct tccttatgag tggcggtcgg ggacgagcga tggttttttt   60
cctaccaatc tatcccccta ggagcatgcg cgtagtactt tgtttcgatg actaatagat  120
ttttgcaata agtatgtgag ttctctatga ctaatgttga gtccatggat tatacgcact  180
ctcacccttc catcattgct agcctcttcg gtaccgtgca ttgccctttc tcacattgag  240
agttggtgca aacttcgcgg gtgcatccaa acctcgtgat atgatacgtc ctgtcacaca  300
taagcctcat tatatcttcc tcaaaacagc caccatacct acctatcatg gcatttccat  360
agccattccg agatatattg ccatgcaact tccatcatca tcatatacat gacttgag    418
  
```

<210> 7733
 <211> 354
 <212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-031-Q1-E1-A7

<400> 7733

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gggtcgacgg gaggcgacag tggaactttt ggcgatcgtg gtggctttgt ccttgctcgg   60
tcgccgcatt tgacgtgcag tacatcatcg acgagtgatg tcaccgttga tctgtatgaa  120
taatttgtgt caaataaaag gggggaagtg actagtgaag taaaacgacc tgtaacttgt  180
taccctattc ttttgcaa atgtcatgcta atcatgccat aaacacgaac tgttcgcttc  240
atcaccaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaca  300
aaagataaaa agataaaata aacatgcac aaaaatcaaa aaacttctaa agtg          354
```

<210> 7734

<211> 399

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-031-Q1-E1-A8

<400> 7734

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attcgcggt cgacactgtt atggaaaaat gtggtactag ggtggtggct tgggatcatg   60
agggtctctt ccaagcagca aggtgtgcta agtatgatgg tattacagat ccacttaaca  120
tagaaatcct agcctgccga gatggaatgc ttctagcgaa agatttctta gggctaccaa  180
tctgttatca ctgagacaga ttgttctgat gccaaagtacc tgtgggaaat gaggaaggaa  240
ggacggtcac taggtgtgcg tattcttaag gaaatgcaag acagggtatc taatttttag  300
ggttttgagc ttcggtatat tagccgtatt tgaaataatg tagcacattg ttgtgctaaa  360
gaagctctag gcataggtcc agttcttttg gccgattct          399
```

<210> 7735

<211> 381

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-031-Q1-E1-B1

<400> 7735

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catacaagga aaacaaattg gggctatttc aagcatgtcg aaatacaacg tgctctcaga   60
```

tgaagccttt tagcctaccc gaacccctc cattaacat gatgtatttt tgaacatctt 120
 tgaaatgaaa ccaacttttg aaagtatgtg ggaacgcca tggttaagcat cgatgtcaag 180
 tttggatgat ctccgacacc gstatgcaagt tgcgacacac ccgaccattt atcggtattt 240
 tttgattgaa aaaactccag aaaatgaaaa acttgtcaag aaccaagaa agtaggcatg 300
 gtgccctgag ttgatcatgc aataccatga aaaagaatta gggtcatttg aggaatgtca 360
 gaaaaaaaaag tgctctcaaa c 381

<210> 7736
 <211> 411
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-031-Q1-E1-B2

<400> 7736

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 ccacaacggc gagggcaact gctggaccgc caaggtgaca tgcgaggagg agctgatggc 120
 ggccattgcg acggcgaccg aggagaagaa ggactgcctg tgcttcatcg aggtggtggc 180
 gcacaaggac gacaccagca aggagctcct cgagtgggga tccaggggtct ctgccgcaa 240
 ctctaggcca cccaaccgc agtagacatt atactagatc tcgattttga tgatttgagc 300
 gaggcatttt cgatttacta gaatccagcg tacgtttgat tactactccc ttcgttccta 360
 aatacggatg tatgtagaca tgtttctaga cattttgaat gactactaca t 411

<210> 7737
 <211> 414
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-031-Q1-E1-B3

<400> 7737

gcatcctaata gactcaccga caatctgtaa cctgtattca tctattgcgt gatgcattct 60
 attggataca agtcatgggtg ttctgcagtc tgcatttctt cacttagtct ggatttcgag 120
 agctgttgca tgcattgtgc ctgcgcagta ggctcatctt ttacagtctg tgggctgtga 180
 actggtaact aggaggttca atgtcagtc attttattga cactgctatt taatttttga 240

gagggatattc attgttcagc atgaattttg ctgtagtcgc acttgtatctt cctagagcat 300
gtaacagtcg tcacggccgc agatattgaa atcgatgaag ctacattcta tgtaaataca 360
tatatatata tatatatattt tcccgtaaaa aaaataccct tgaaggaaaa ttta 414

<210> 7738
<211> 407
<212> DNA
<213> Triticum aestivum
<223> Clone ID: LIB104-031-Q1-E1-B7
<400> 7738

acgggattag ctagacagtg tcgtggaaca tgtgcctcat gtcctatggg gatttgcgcg 60
aatgtttcag acttaagcac acgtgaagtt tgctcaaata ctgtagtag aaatctgttg 120
ggtgaaacaa ctgatgggtg tttattagta atatttcagc acgattctgg ccctgtaggg 180
tcacattctt ttgaatctgc acgtcacttg tttattgtta ctactgctgg ataggctgtt 240
gccagcctgc ttcgtcaacc gaaggatcgg cataatggca gtcttctctt tgatatccag 300
tggagactag ttcatagtga tttccgattt attttgagga tttcccctga aggtaacatg 360
gggtttgaga gtgcacattt caatcgaagc catgaaatga ctcaatt 407

<210> 7739
<211> 408
<212> DNA
<213> Triticum aestivum
<223> Clone ID: LIB104-031-Q1-E1-B9
<400> 7739

gacggggata caaatgaagc agattaacaa ttggttcatt aaccaacgca aaaggaactg 60
gcacagcagc aacacagctt cctctagcga aaagaccaag aagaaaagaa acgttacagg 120
taatgacggc acggagcaat cgtggtagac cgggtcccag atgaaacaaa ctagatgtaa 180
actatacttt tatcatgaag attgctgcag tatattctct ccctctctct tttctggtgg 240
ggcaactaga tacgaagacg acccgttcac aagcaagttc aaaggcaaag aaggatatca 300
taatagttga ccaaagggtg tagcgactcc ggatgtacag tgtgagtgtt ttgctgatgt 360
aatttgtgta agcctgtgtt gtataaccga ggaacggaaa ggggcaat 408

<210> 7740
 <211> 426
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: LIB104-031-Q1-E1-C1

 <400> 7740

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cggtccagac taccgggtcg accggggggac atatttgaag cagtcggatt aaacctgtat   60
ctctttccct atgggtgtttt gccactggc cctgaacgag gcataattga ggttgtccca  120
aatactcgga gtagaaatca aatgggtgaa acaactgatg gtggtttatt agaaatattt  180
cagcaagatt atggccctgt agggtcacct tcttttgaag ctgcacgtca aatgtttatt  240
gttagtagtg ctggatatgc tgttgccagc ctgcttcttc aaccgaagga tcggcataat  300
ggcaatcttc tctttgatag ccaggggaga ctagttcata ttgatttcgg atttattttg  360
gagatttccc ctggaggtaa catgggggtt gagagtgcac atttcaagct aagccatgag  420
atgact                                                                    426
  
```

<210> 7741
 <211> 392
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: LIB104-031-Q1-E1-C3

 <400> 7741

```

gggtcgaccg ggagctacat ccggtacatg gggtcgctca ccacgccgcc ctgcacggag   60
aaggtgatgt ggaacattct gggcaagggc agggagctga gccaggagca gttacaactc  120
atcacccgac cgctgcctca ccaggacaac aggccgccgc agccgctcaa tggccgccaa  180
gtcgccttct acaacccgcc aaacaccatc atctccatcc aatccctagt actccctccc  240
taaactaata taaaagctta catttgttta cagagggagt acaataagca agacatagta  300
catactccct cctcggttcc acaatataag aacgtttttg acactataca tgtcaaaatg  360
agtaaacatc taccagaaaa aaaatcagga gg                                                                    392
  
```

<210> 7742
 <211> 390
 <212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-031-Q1-E1-C4

<400> 7742

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ggattgaagt ctaatcccca tgacttcttg ttttccttg ccgaagcctt agcatactga   60
aagttgcgct tgaagagatt gtcgtcacga caccagagca atgatgatgg gtcggcttct   120
tcaggctgtg gtcaacggac catgcaagga tagaattctt gcgcaatggc ttcattcttg   180
ttcttggggg gaaggcctcg atagagaata tcacccaag ggctcttgat aggatttttc   240
tctgcgtagc cctgggtcac acacttgtag ttgtatcact gttcagccca atagcgtcga   300
atccattgga ttcgagtctt gcgctaattg taatcctctt caggatctgt tttgtacatt   360
tctgcaagat catcatgtag atcctttgaa                                     390
```

<210> 7743

<211> 398

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-031-Q1-E1-C5

<400> 7743

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attctcgggt cgacgggggt ggcaagaggg cgtcgggctt caatagcttg tctcagcctg   60
agagaaggaa cagcagcaag aagctccagc gccagctttc cttgcactat taattttagt   120
tgcctaattc gttcatcatt catccatcat tttgctgctg aagtgtatta attcttggtt   180
ctgcttacta gattccacct tatgcgctag ctgttgggcg aagtacgtca atcacctcaa   240
aatttagtag atttgaaata tcgttttcat tagccattag tctctatggt gaaagagttt   300
ctgttgaaga aatagctagc taggcctaca acttttccca tgtctttttg tttgatgtct   360
ggatgttatt ggaaacctta agtttctggt gaagaaat                                     398
```

<210> 7744

<211> 369

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-031-Q1-E1-C6

<400> 7744

atccttctac agtaacgtgc cttagaccag agcatatacg aagaccctta ggagtctcga 60
tctcgagctt gccttgaacg acgactttta attacatcat tcattcagca ttcagctatc 120
aatgcgctgc tcaagtgtcc aagctcttag atcagcctac cacattcgac ttaacgctct 180
acctgttggc acagctacgt caaacaccac aaaatttagg tcaattgaca tgacgtttct 240
cagcatacac tagtcgtcaa gtcttgtgag ttctgcatta ttcagcatcc aaccatgcat 300
acaactttac tcaagtcttg ctgtatgatg tatccacttc atgatcagcc ttgtctattt 360
cttcaagat 369

<210> 7745
<211> 325
<212> DNA
<213> Triticum aestivum
<223> Clone ID: LIB104-031-Q1-E1-C7
<400> 7745

acgggatgat ccacgaggcc gatgtcgatg ggcacggcca gatcaactac gaggagtctg 60
ttaaggtcat gatggccaag tgatcccgcc gatgtcccg tggacggtgg tattattatt 120
ttaccgggga ggaggaaatt gtgctatgca tattagtagt aaggaatgcg gctctcgttt 180
ccttgtcttt gcccacaaacc agaagaagcg tactattaga cgtagttgct gaagagcatt 240
catggaatcc tcttccccctg ctgctacctt gtctctctcc cgtgtgtcat tgaaacatct 300
ttctttctgt gtgaaaaaaaa ataac 325

<210> 7746
<211> 433
<212> DNA
<213> Triticum aestivum
<223> Clone ID: LIB104-031-Q1-E1-C9
<400> 7746

gcccgggccc acgggcagta gtactttact tctgccatta ctcataggga gtagtctcat 60
tatectttgt gggaacttca ttcaggacat gacataatgt caatatagcc tccccccacc 120
atgtcttgga taaacccgat gtatctaaca tgggtgtaac caaatctgct agagtatggt 180
ttttccgttt ggcaaccccg tttgactggg tgaataggga ggcgtcctct catgaataat 240

accatgttcc acactgaata aatcaaactc attagaaaag tactctccac cacgatcaga 300
 ccaaactcgt ttaattttct tttcaagttg gttctcaact tctgccttat agattttaaa 360
 gtagtgtaga tcctcatcct tagtatttaa caaatacaca tagcagaatc tagtggaatc 420
 attaataaac aac 433

<210> 7747
 <211> 350
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-031-Q1-E1-D1
 <400> 7747

acgggatgat ccacgaggcc gatgtcgatg gcgacggcca gatcaactac gaggagtctg 60
 ttaaggtcat gatggccaag tgatcccgcc gatgtcccg gggacgggtg tattattatt 120
 ttaccgggga ggaggaaatt gtgctatgca tattagtagt aatgaatgcg gctctcgttt 180
 ccatgtcctt gcccacaaacc agacgacgcg tactagtaca cgtagttgct gaagagcatt 240
 catggaatcc tcctcacctg ctgctacctt gtctctctca cgtgtgtcat tgaatcatca 300
 ttcattctgt gtgaaataca gtgagacgcc agaagacgcg cacggaacga 350

<210> 7748
 <211> 442
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-031-Q1-E1-D4
 <400> 7748

cggtcgtaaa atccggggcc gacggaaaat aataacaaaa ttattagtcc gggaaaaaca 60
 aacaacaaaa aaattccggt gcccataac caccaaacct aaggcaggat ccggtgataa 120
 taacatctgg acagacttac aaaagagaat atattgagaa atggttcatt gagggataca 180
 acacttgtcc caagacacag aaaaagctag aaaactttgc gatgattcca aatacttgca 240
 tgagggatct catttgcaat tgggtgcagag agcatgggtt cacaatctca gatttccttc 300
 caagcaaaga ttctacagt tacttgccag agcaattgca tggtcactca atgtcaagtt 360
 tgcacaatgt ttcagtgcct ctaattgctg ggaatgccag aaattttgtg attgaccaca 420

gcagttcatc tgtcgcgttt tc

442

<210> 7749
<211> 402
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-031-Q1-E1-D5

<400> 7749

aattccggtc gacggggcat gggaacctta ttcggaacct atgcgggtgg tttccatggc 60
gaggagaggc tgggaaagct tggctatctc gttggaagcc agctaggcag ctgggttggg 120
ggaagaatcg gactgatggt ctatgatgtc atcaacgggt tgaactacat gcttgagttt 180
gtccgtccag aggagtatcg atcatcatct tacgcaacat aagagggctc agagtatgca 240
gataactaca gaagttcgcc ttacgtatca gaagagggtc cagagtatgc acataactac 300
agaagtcgcg aaggatatga gccaacatac agtgagacgc cagaagaggc gcacggaacg 360
acggggtgaa gctgtatgtg aacaacctgc gaagcgcaca ca 402

<210> 7750
<211> 406
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-031-Q1-E1-D6

<400> 7750

attccgggtc gacggggcggg atcatgatca tgaggaatat ataggataat aaggtggtgt 60
attaccacca tgcccgttga gctgatgttt gtttcagcta gagaaatcgt tacgcccgt 120
cataattcct ttttcgacgc tctggagaat aataactact ggtatatcat tctatatcaa 180
agccggcttg tgaaataaat gatccgccgt cttgccttca aaaaaaaaaa aaataaaaaa 240
aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa taaaaaaaaa 300
aaaaaggcaa aaaaaaaaaa tacgggcttg ccataagggt ttcaagggtta atttacactt 360
cttcgaaagt tcaaacttct tctaaatggc cgccaatttt taatta 406

<210> 7751
<211> 402
<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-031-Q1-E1-D7

<400> 7751

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attcgcgggt cgacgggtga tccgaatgat gattgtgata tcaagattag gaggggtgaat   60
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gtgtgggtgtt cgtccgacga aggcttcagg tgagcgcgcc aaggagggtga gatgccagga  180
tgccgtgtga ggcggcgagc acggcgagat gccgatgggtg ctgcgtgaga agcgggaaga  240
cgtatcagag gctggagccg tgatggactg catcaaattg ggtcgggtga accggccggt   300
cgttctgttt gttggactag ctgttcatgc gtgagttcgt ttagtcctag ccgagagtat   360
cgttgctagt agttgatgca tgcatttagt tggcctggtc ac                        402
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<210> 7752

<211> 398

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-031-Q1-E1-D9

<400> 7752

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gacgggtcat gacacacact gctaaggatg cttcaaagtc aatttcgatc ctttaccgtg   60
tgattcaaga cccgtcgtcc agagcatgtt gaatagggtc ctacaagggt tcaaactatc  120
tacctcgtca ttcacactgg gtgatcacia taacagagta atagatacta actctgacac  180
aggggaagct aatattcaca atggtccttc tagtaatgat acaatggcac ctacatcttt  240
gcacatgtac aatctccaac atacggagga ccgattctct ctacatattt aaatcatgcc  300
agacctccta atattgtcat aaataaagat tttgattcct gagtgtatct cttcaagcgt  360
catttaaadc atgtgaacaa taaacttttg agaatcat                        398
```

<210> 7753

<211> 380

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-031-Q1-E1-E1

<400> 7753

gcagacgaga tagattatga ggggtgaacaa gactacctcg actttttgac tgctaagcaa 60
 cgttcgcatg tccgccccga tgatggtact gacgccgata ccgacaccga cagcgcccg 120
 accgatggcg gcgccgatac cagtggggaa ggtagcatca tggaagatac cggctccgat 180
 gccggtaccg gtaagatgca taagatgcag aggatataac agcctgacat actacggatt 240
 ggaccacttg tgatcaccat catggcacct ggcatgtttc agacttgcat gtagctcgat 300
 tttctagatg atcacgcgat acttctttgt gtcggatgat gatttatact agactatatg 360
 tatgtcaatc ctatgattac 380

<210> 7754
 <211> 306
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-031-Q1-E1-E10
 <400> 7754

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 catgctggact tcgagaccac ccataagccg gagcacacgg tccggagcag gctgccggcg 120
 accgagccct gacgatggca ccttccgctc cagcattcgc cagatcttgt acagcgaaaa 180
 tacacgcctg aagctgcagt gttcttgttg tttttctctt gcgctgacct cgaaaaacac 240
 agcgacagag ccattctagaa gatggatgtc tctgtggaat aatacaggat tcgccatttt 300
 tatggg 306

<210> 7755
 <211> 389
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-031-Q1-E1-E11
 <400> 7755

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 actaaggggt ggtggaatth aacagcaaca tgccagcttt gactcagtgg ctaacatgat 180
 ctagacggca cgtaactctt ttgaggtggc gcacacgagt ccacatattc accatatcaa 240

tacaccacta tggatccgct cccgtctccc tacgataacg ccatccagag cactcacgct 300
 tatcttgccg attttacaat atccacttca agttatctat gaactgtaca tgcaaccag 360
 atgtccttta ctgcggacgc ggctaatacc 389

<210> 7756
 <211> 427
 <212> DNA
 <213> Triticum aestivum
 <223> unsure at all n locations
 <223> Clone ID: LIB104-031-Q1-E1-E12
 <400> 7756

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 catgatcatg tagttgacat cgtattttgtg gcagggccac cttcataatt ttcatacatg 180
 tcgctcttga ttcattgcat atcccggtag accgccggag gcattcatat agagtcatat 240
 cttgttctag ctttgagttg taaatcaata aaagtgtgtt gatcttcatt attagagcat 300
 tgtctcagtg aggaaaggat gatgaggact atgattcgcc cacaagtcgg gatgagactt 360
 cggactttac aaaanaaaga gagaaaggcc aaaaaaaaaa aanaaaaaaa aaaaaaaaag 420
 cggccgc 427

<210> 7757
 <211> 435
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-031-Q1-E1-E3
 <400> 7757

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 cttgtactac tccatgactt tcctgaattt ctgtgtgatt atcacttcag tttttgtgac 180
 gtgatccctt ccagttgcat tcaaatgcgc aatgtcattc ttagtgcttt tccgcgcaac 240
 atgagacttc cagaccatc tactcctaac ttgaagattg atctgctagc tgaaatttca 300
 ttacctccac gaatcatgtc agatgtcgat ggtgccctca agttaagca tatgaagggt 360

gatgtcgatg agtatcttaa gagaccagaa ggctcatcct ttttgaatga tctgaagcaa 420
aaattgctgc tgcct 435

<210> 7758
<211> 429
<212> DNA
<213> Triticum aestivum

<223> unsure at all n locations
<223> Clone ID: LIB104-031-Q1-E1-E4

<400> 7758

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ggaaaagggc catgtacgac gccgggctct ttgatccctt cgacgacgac gaccaggatt 120
tctcggactt catgcaggag atgctgggtga tgatggatag cgtgaaaaac gagaagccgg 180
acacgctcga agacctgcag aagatgctgg atgacatagt caacggcgac ggcggtagcc 240
gcgccactgc tgggtgctgg gtagcggcg gcgggtgggtg tggctgcggt ggctcgcgttc 300
caccggaggc caaccgcaga actcgtgtcg ccccttacct gcagccttcg cgaaggtgat 360
ggacgcgccg gtgctcgtga cgtgcacgca ncgctgcgct tgtangagag agatcagagc 420
aagaagaga 429

<210> 7759
<211> 430
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-031-Q1-E1-E5

<400> 7759

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aagggatgta tgaccattcc aaggaagtgg ccgaggccat gctcggggaa gctaattgtga 120
aggtggctcc ccggagcatg ggtgggtgagg acttcgcttt ctacgcgcag agagcggcgg 180
gtgcattctt cttcatcggc gtaggtaacg agaccgccat ggatagtgtg catccggtgc 240
actccccgca tttcgtcttc gatgaggggtg ttcttctat tggagccgcg tttcacaccg 300
cggttgccat tgagtacctg aaccgctcct ggaaactaca ggagcatgag tgaagggtccg 360

ttcttggatt atggagtga aatcctctga tgtccgtata gtattagata tccagaatcg 420
tcttcatttg 430

<210> 7760
<211> 345
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-031-Q1-E1-F11

<400> 7760

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gagactgctg cgtctatctg ctaacttcat ctccgttcaa tggccgtcca cttacagtcg 120
tgggacagcc aaggacagtc acctgacgct ggtggctcac catctgacac cgccgccggt 180
cctgacgtgc ccggacaaga acttgatcca ccagggtgtg ttctccaact acttgaaccc 240
gctggggatc tgctgcaact acaccgttgg caaatgccac acgccaagg ccatcgagat 300
tgtgcacaac gtgtgctga cgaatacgag ctgctgctg gccgt 345

<210> 7761
<211> 443
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-031-Q1-E1-F2

<400> 7761

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aaccttgtgc tggacggaca aaatgtttca tgtaaaattc gacggctttc gcttctgctg 120
tcgatggtat ggcgaaagaa aagtaggcat actgtatata ccagctgttg tgttacttc 180
actggtccta gggggcatgt gatgtaaatt atttctagcg tatgttctcg aaaggaaaaa 240
agggaaattc cgggtgcctc tagacgggca ttgagatgca tatgctgtac tgtgaccgag 300
agtagccgat tcagagagat accattttgt gatgaaaaat aacttgcgta aatcgggtgga 360
tttgtggatg taaaaaaaaa acacgaaaat tgcaaaggcg cgtaagtga tatccacca 420
ctgtccagat acacagttta aaa 443

<210> 7762

<211> 316
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: LIB104-031-Q1-E1-F3

 <400> 7762

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aacacaactg gatcctcctg taacggagga gattatgata cctattaggg ccggttcttc   60
atcaactggg acgccaaggt gctgctggat catgoggacc gcatgctgat gctagccagg  120
ttggcctttg aaggctcagc tattgctgtc aaagtgtcag gcatatactg gtggtacaaa  180
actgccagcc atgctgctga tctgactgct tggttctaca acccatgtaa ccgcgacggg  240
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gaactgcgca ccatgg                                     316
  
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<210> 7763
 <211> 402
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: LIB104-031-Q1-E1-F4

 <400> 7763

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cgggtccgtgg cgctcaacag cgaaggcctt gagggctctag taccacgggc aaagctgtta   60
ttatcacttg gtggtacttt tttcctggca tttggctctc tgattattgt cacggtttct  120
ctatttgctg gtctttatct gtattttggg caaagctttg tacacgacgg gagcaagaaa  180
ccagtcgctc caccaccata cattgacca tatgagctac tggaagatga taggatctcc  240
cgccctccc ttgatgtgtt ctgaatctcc acgacaaaag gatagtattt gtagatagct  300
caataatfff cttgttttac tatatatgta cctgtaaatg caatagctgt agactgttat  360
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<210> 7764
 <211> 444
 <212> DNA
 <213> Triticum aestivum

 <223> unsure at all n locations
 <223> Clone ID: LIB104-031-Q1-E1-F6

 <400> 7764

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gtctagtacc acgggcaaag ctgttattat cacttggtgg tacttttttc ctggcatttg 120
gtcctctgat tattgtcacg gtttctctat ttgctggctt ttatctgtat ttggggcaaa 180
gctttgtaca cgacgggagc aagaaaccag tcgcgccacc accatacatt gacccatatg 240
agctactgga agatgatagg atctcccgcc cctcccttga tgtgttctga atctccacga 300
caaaaggata gtatttgtag atagctcaat aattttcttg ttttactaga tatgtacctg 360
taaagtcaat agctgtagac tggtattatc cggaaattgg caatggctcg taggtgcata 420
tgcnaccatt gtctanatac acat 444

<210> 7765
<211> 394
<212> DNA
<213> Triticum aestivum
<223> Clone ID: LIB104-031-Q1-E1-F8
<400> 7765

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caccggaag ccatagtcca ttgtggtgaa gcgtcatggg gtcgttgagg gcctccaatt 120
gagttgtgga gattgcccc aacctgcttg taaagggttc gtcgccgcct ccaagggcac 180
caatagtgga atcacggcat ctgcattgt gtgagggcgt gaggagatta cgggtggccgt 240
agtggcttct tggggagcat tgtgcctcga caccgctcca acggagacgt acttcatctc 300
agagggaatg aacttcgga acacatctc atctccaacg cctccactct tggttgtcac 360
gtgcctttag ttgtggcagc gtagttgttt caga 394

<210> 7766
<211> 396
<212> DNA
<213> Triticum aestivum
<223> unsure at all n locations
<223> Clone ID: LIB104-031-Q1-E1-G1
<400> 7766

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agttatttta gataatacta aannacagga tagagtaaga tacaaaaagt ggtaaaagaa 120
aagtgggatt tcatcaagat tgattacaat gaagtcccct aaatttcgga aatcaaagag 180
atttggttgt gggaattggt caatgagtta agtaataata ataagaacta gatcatccaa 240
accattgaa tgaaaaaatg aaattcgatt ttcaaggaaa tttttggata agagattaat 300
aaacaattga attgaaaaaa aaaaacttca ttctaatttg gataatttcc ttttcaataa 360
gaccctcttt ttggagtga cgcgcgaata ttcccc 396

<210> 7767
<211> 351
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-031-Q1-E1-G10

<400> 7767

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ggcgtaccac aaggagggca tgatggacaa tcatcaagga ccagatcagc ggcgacggcc 120
atcgccacgg cagcatggac ggcgaccacc acgagaatag tgacaacact acacactacg 180
acacgatgca cggctagggc cacaaggacg accacggcca ctgcagcagc atcagcgaca 240
gcgacagcga ctgagccatc tccggccgcg ctccggcagc atcgtgcagt gtacgctaga 300
tcgatgaacg cttgcgagat gtgtgccatt catatatgtt gcatggtttg g 351

<210> 7768
<211> 379
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-031-Q1-E1-G12

<400> 7768

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aagataaaaa aaaaaaataa acaaaaaaac aaaaaacaca aaacggtcaa aagcgatacc 120
taaaacttaa ttcaacggcc gttcgtcttc cagggtctcc cctgggttca acttcgtcgt 180
ccgtcgtttt aatcgccttg caccgggtca ccctttccct agcccgctc tgccccgctg 240
cgccctttcc ctttttctc cgctgacgtc tctccgact gggcccccac ctggtcccc 300

ttccgatccg ttttttacct tgccgggggt gtggaacact ccccgtaacc tgtccgtttc 360
 cccccaccgg ctccccgc 379

<210> 7769
 <211> 427
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-031-Q1-E1-G2
 <400> 7769

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 ggctattacc tgggaatacg atcctctgtt catcgctggt tccgacgaca actagagtct 180
 cagggggtac tatctacaca gggcacacct agcatgtgca ggactatcat acattatattt 240
 acgtacctca aagcctgtca gtagactcat aaaagcttca tgcaatctgc tttcgacgga 300
 cgagattctc tccatcacct tattcatcag cacacgggtg tcatctgaga tggccgctcg 360
 cccaccaaac tccctcagaa catcgttca cacaccagac ggtgccggac tcttttttcc 420
 gctctct 427

<210> 7770
 <211> 408
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-031-Q1-E1-G4
 <400> 7770

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 aactgttcga tcgatggcag agtttcgtcc gctattctaa attgctaaat gcacacaggt 180
 ggggcctgag ttttatgtgg acggttagat gcctaattctt ggggtttag tttgtcttgc 240
 ttttcccggtg tacgtttatt tgggtgggca tagtgaagaa tatgtttgat tgtttaatag 300
 tataagtaga gaagtagaga tttgtctttc acctggagat tcgatgtagc tcggtctgag 360
 catgagtgat agcagtcttg tatcttatgt ttaccatgca aattttac 408

<210> 7771
 <211> 260
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-031-Q1-E1-G6

<400> 7771

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 gtacctatag tccacgaaaa agcgaacggc tacggttagt tcacccctagc cgaaccaatc 180
 tgagcctttg cataagcctt tctgaatatg cggttgcacc atcgtgtcga gttgctcgtc 240
 ctagcgtcga gtcctttcaa 260

<210> 7772
 <211> 451
 <212> DNA
 <213> Triticum aestivum

<223> unsure at all n locations
 <223> Clone ID: LIB104-031-Q1-E1-G8

<400> 7772

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 cgtcggccga tcaatcaatc agacgaatta ctaccacggg aataaggggt gcagtgggtg 180
 gtgattaact cgcaccgcca tgggggctct gtcggtgacc gtgtgatggt ccaccatagc 240
 ttccagaaga tttcaagaaa cgtctcgttc tagctactaa tttgacacgt atagatcttt 300
 cgtgtatcag caccgatccg taaatggggc ttccagaaca catcgatcca ttttgctcgt 360
 gccaaatgcg ggcaagtctc acgtccagaa gcaggaaaag tagagcgatt aagaaagcag 420
 tcggaagcan atggcaattg gcaagcttac a 451

<210> 7773
 <211> 402
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-031-Q1-E1-H1

<400> 7773

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ctgttgtcag caatgctctc taaatagaca ctgcaattat catgtacatc attgctgctg 180
caataaacca ctaagaatta ttcaatatct agcctagcgc cttcgttata atcaaccgag 240
ggttgaggcg gagttacaaa atctgaatga gaaaccaagg gattgtccaa gtcagcgaca 300
tctttgttat cttcagagct gttagaagca gctgagatgg cgtcaccgga ttctgaatgt 360
gttctgtcca catatgcttc gggtaaggag ctctcggcca ca 402

<210> 7774

<211> 396

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-031-Q1-E1-H12

<400> 7774

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atttgacgtg cagtacatca tcgacgagt atgtcacctg tgactgtatg aataatttgt 120
gtcaaataaa acgggggaag tgactactga actaaaacga cctgtaactt gttaccctat 180
tcttttgcaa atgttcatgc taatcatgcc ataaacacga actgttcgct tcaaaaaaaaa 240
aaaaaaaaaa aaaaataaaa aaaaaaaaaa aaaaaaaaaa aaaagaaaaa aaaaaaaaaa 300
aaaaaaaaaa aaaaaagggg gacccccaaa agttacaaac ttaaaaaaaaa cggggccccc 360
caaaaggctc caccctaaat tccccctcaa tgcaaa 396

<210> 7775

<211> 413

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-031-Q1-E1-H3

<400> 7775

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gcgcattccc atgatcagat tccccagag gcatctcaaa gtcccatccc cagcagcggc 120

gcagcctgca gaccagcacg cgaccctcat gtcccgattg ggagctaaag tagaggcacc 180
atcttctgga gagaaaaaga attaccgctt tagatcagat gtgccttccg caccttctca 240
taatgctgtt ggagggccag cttcacagct tccaagcgc aaaccactat ctgaggaaga 300
gattgaagct atcatgcaag gcggtgtctt ctgatattgc ttccggccag tggcaccttt 360
tgtggagcac caataagccc tacgccgcgc tgcattcgta accgttttgc aca 413

<210> 7776
<211> 449
<212> DNA
<213> Triticum aestivum

<223> unsure at all n locations
<223> Clone ID: LIB104-031-Q1-E1-H4

<400> 7776

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aattagaatt tttgggtgga gagtagccac aaataccctg gccacaaaaa gcaacaaatt 180
taagaggacg ctcgaggtgg actcgacttg tgacatttgt ggcaatggcg tggaggatga 240
acatcatgcg gtgatcaatt gctcgaacag cagggccctt cgcgttgcca tgaggaagga 300
gtggtctctt ccatcagaga aatccttcag acatacaggt anggactggc tacaggcgct 360
tttggaagaa gaaacagagg aagtttagagc aaaaatctta atgctgctgt ggagatgttg 420
gcacttgaga gaagatatcc taagacaca 449

<210> 7777
<211> 440
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-031-Q1-E1-H5

<400> 7777

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tgaaataaac gaaataacgc tcttggtcaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 120
aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 180

aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 240
 aacggaacac ccaaaagata aaataaaata aacaccaacg ataacaaaaa taaaacaaaa 300
 aatcacctca aaaacaaaaa aaaatagacc aataataaaa aaccaacaat caagaaaaaa 360
 acctagtaaa tcgaaaataa accttatcac aaacaaaaca cctattcaaa aactctgaaa 420
 aacaaaaaag gcaatcaaaa 440

<210> 7778
 <211> 443
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-031-Q1-E1-H6
 <400> 7778

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 acagatattt ttaccacaa ccataacatt aaagttgtct aacatgtaat caagacttca 120
 agatatagct ccctttgcac caagagttca acaaaacagt ttgcaggcag gaaaagttaa 180
 agctctagaa aaaatccttt atgaagttcc catgactaaa aagattcctc aatgaagttc 240
 cattagcacc aagttataac ttttactgg ctaattaagg catgaatgat acccagcact 300
 aaaaaatta cgacctetca aacaacaaca gaacagaaac tttatatgtc cattggccta 360
 gagcaaggaa gaacctctat gaagttggtg gaaaaggtaa tgtaagttgg gtggaacata 420
 gatcacatac ctgaatctaa tac 443

<210> 7779
 <211> 416
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-031-Q1-E1-H7
 <400> 7779

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 tcaagatata gtcctctttg caccaagagt tcaacaaaac agtttgcagg caggaaaagt 180
 taaagctcta gaaaaaatcc tttatgaagt tcccatgact aaaaagattc ctcaatgaag 240

ttccattagc accaagttat aactttttcac tggctaatta aggcatgaat gatacccacg 300
 actacaaaaa ttacgacctc tcaaacaaca acagaacaga aactttatat gtccattggc 360
 ctagagcaag gaagaacctc tatgaagttg gtggaaaagg taatgtaagt tgggtgg 416

<210> 7780
 <211> 433
 <212> DNA
 <213> Triticum aestivum
 <223> unsure at all n locations
 <223> Clone ID: LIB104-031-Q1-E1-H8
 <400> 7780

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 atttgcataa atgccatggt aaaatgattt atttcataac taattaacca taactccgaa 120
 ttaaataaac tatatatgta aattgtctag aaaaatgcat agattaacat ggtgcacttt 180
 gttttattgc ttaacaacat taaaatatgc tttagggaga acagtagcta attaaaatat 240
 ggacatgagg attttctgga attggtgttt gttgttccgg cctcatttaa acttacctag 300
 atatgttgtt ttattatgct tcacctcttg ccatgtttaa caacatttaa tattgtttgg 360
 tagcttgac gagattaaac taaatatgtc aatgtggtgt nttgtcaata tgcaacttgt 420
 tgcattattga gct 433

<210> 7781
 <211> 420
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-031-Q1-E1-H9
 <400> 7781

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 tatcaagtgg tatcagattt ccagggtgct cggtgagatt ttagagtttt tcgtagttta 120
 gatcagagtct gttcttcata cctacagtcc acgaaaaagc cacaaaataa aattaggggt 180
 agttcatcat atccgaacca atctgagccg ttgcataatc tttttagggt tttgctttgt 240
 tgaatttgcg gttgcatcgt cgtgtctagt tgctggtctt agagtctagt ctttttagagt 300
 ttogagttct ggtcagaagt tgtcacgccg ccgccgcacc atcatcatcg cccctgccat 360

cgaccaccac cgctccgaaa ctgtatccat ataccatcac gaatccgtgt ccatatatca 420

<210> 7782

<211> 340

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-032-Q1-E1-A10

<400> 7782

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tacgcaaccg atgacgaaca tttgcactga gagtgaagag cgagggccac gcccttgcg 120

aagatgccgc cgtgcatgta atctacaaag aagcctacat gatcaacgcg ctagtcacgc 180

atgcaataca gaatgtctat ttgaacgctt acagggtcac acatgcagct ttagttggca 240

cggaaggtag agacagtatc caggtaggta cgggtggactc agattgaaga actttggcgt 300

tcattgcagt gcctgaggac acagtagacg cgcttattac 340

<210> 7783

<211> 391

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-032-Q1-E1-A11

<400> 7783

gacgggggac acaaacacac ttcatccccc aaaacggaat tgcaaacccc ctccaatttg 60

aaaataccat tgacaacagc aaactttata aacccttggg tgtcaaaacc aaccggcctt 120

ggtgtgtcaa aggttaccgg gacaccttaa ggaacattgc cggatcaacc cacatgctgc 180

atcaactatt tgtacctata caaatattca tcatgctcaa tctccctact ccttgtttag 240

tactgcctcc gtcccataat atagtgcata tagatttttt tgagaagtta aacatcacia 300

actttggcca agtttgtggg ggaaaaatat ttacatctag aatatcaaac atgtatcatt 360

agatccatcg taagatgtag ttccatattt t 391

<210> 7784

<211> 421

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-032-Q1-E1-A2

<400> 7784

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gggcacaact aaggtggcta tcaagcgtgg caacccttg tctgagcagg gcatacatga 120
gttccagact gaaattgaaa tgctgtcaaa gtcgccac cgccatcttg tgtcgctgat 180
tggttactgc gaggacaaga atgagatgat cctgggtctat gaccacatgg cccatggaac 240
tctgcgtgag cacctataca agaccagaa tgcgccgctt agctggaggc agcgtttga 300
gatctgcatt ggtgcagccc gtgggctgca ctacctcac accggtgcaa agcacaccat 360
taccaccgt gatgtgaaga ccacagacat cctcctggat gagaaatggg tcgccaaggt 420
t 421

<210> 7785

<211> 278

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-032-Q1-E1-A3

<400> 7785

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gtactaacgt ttcgtttggc tagtgcatac cgatgccgac gtatgtcgtg tacaagggta 120
aggttcccgg agtctacgat gactgggagg agtgtctgag acaggttcac cgattcagcg 180
gtaacagtta caaagggtag accactaggg ccgaggccga atctagatac acccgctatc 240
tagcgggaaa agggatggac ctttggggga aacgggtg 278

<210> 7786

<211> 425

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-032-Q1-E1-A4

<400> 7786

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tatgagctcc gacgaggga ggacatgtcg gtccgctga gcgccctta aatccgcgc 120

gtccctctct ttggctttaa tcaggggctg attccccga tgagtcattgt aggcaataat 180
tctgcagggc caaagcggcg gcaggcatcc acaccgcacc gcactacctg gccctaccct 240
acgtacatac tccagcacac cgacgtacta cgatgtaccc tacactacac agtacacaca 300
ccctaaagac ggagatcccc catgatcatc atcattagtg ctgccatgat cctctttaat 360
ctgccgtacg caccagatat aatactgtct cctcccagt cccagttcaa gcactcgttc 420
tgctg 425

<210> 7787
<211> 411
<212> DNA
<213> Triticum aestivum
<223> Clone ID: LIB104-032-Q1-E1-A5
<400> 7787

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aagatgaaaa aggaggaaga gaagaggatg gccacactga attcctgcaa ggatgaagac 120
agctcatgct catcggagtc cagcaacagt gagtgtgaag gggaagtcgt cggaatgagc 180
cgctgtgcca ccatttctgc gcctcgaaca ccacctgcaa gcacagtttt ccccatcata 240
gtgcctcaaa ttccagactc cgttgcactg gatgctcaga tcttttccgg gtctgcaaat 300
gcaatgcagt gcactgccac cagccttgcg gttgtcgaaa aaccagtgtc gaacagaatc 360
aatgtctgca tgggcggcaa gtgcaagaag gcgggctcgc tcgctgtcct g 411

<210> 7788
<211> 426
<212> DNA
<213> Triticum aestivum
<223> Clone ID: LIB104-032-Q1-E1-A7
<400> 7788

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ggcgtcctcc aacgataacg acatcgagga gatcaacgtg gaggatgacc gtagtgtcgc 120
catcggggct gcctccgtgg gcgtagtcac caatgaggat gacagtatca tcgcggccga 180
tgctccggcg atagagaacg accagatcga cacgttcgtg cctgctccgg cagccaatgc 240

caacgaggat gccggtgccca ccttcctggc tgccccgggtg gccggtgatg atggcagtgc 300
ctccttcggt gctgcgccgg cggccatgga ggacgaactt gtatccatct cgtccgctcc 360
gttggccgag gacattgatg gtatcatcat gggggctgct ccggtcgctg acgatggatga 420
tgttgc 426

<210> 7789
<211> 398
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-032-Q1-E1-A9

<400> 7789

gggggaagcg gacgttcgat gctgagacgc cgcggcgggc ggagtcggca cgcagcaacg 60
aagcggtcga ggaagcgcg atcaagctgc tggagctgcg gcaggtgaac aaggtgaagg 120
cgctcgctcg cgccttcgag accgtcatgg acgacaacca aagccccgcc accgccccga 180
agccgcggt caacctccac gctgaacta cgagtacatt ccaccagcat gaagctcgat 240
cgcgctgacc tctccttta tcccggtac tctttaatca cccatcaacc caatttgcg 300
tcgtcgaca cttatctata attacggtat cgcttatatt ttgcaaggag gaagatgatg 360
gaagggttat catgatgtaa taataataat gatcatgg 398

<210> 7790
<211> 427
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-032-Q1-E1-B1

<400> 7790

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tggaatacag tagatttaac accaatacaa ataaagaatg agttaattac agtaccttga 120
agtgggtgtt tgttttcttt cgctaacgga gctcacgaga ttttctgtta agttttgtgt 180
tggaatttt caagttttgg gtaaagattc gatggactat ggaataagga gtggcaagag 240
cctaagcttg gggattccca aggcacacca aggtaatat aaaggacaac caagagccta 300
agcttgggga tgccccgat ggcacccct ctttcgtctt cgttcacggt taactttact 360

tggagctaatt attttattca ccacatgata tgtgttttgc tttgaccttg ttttaattta 420
attaacc 427

<210> 7791
<211> 360
<212> DNA
<213> Triticum aestivum

<223> unsure at all n locations
<223> Clone ID: LIB104-032-Q1-E1-B11

<400> 7791

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aaaactgcaa agatttggtta aaaaggaaaa ggcctcctgt ttctcaaact gttcaactcg 120
acaacttgaa aaacctaacc ctacatggtg tatctctaac agaatacccc ttcaaaaagg 180
ttttaaacgg tttcccctta aatggggaaa accctctcaa aaggaagcca atatctttag 240
atatgcaccc atggatactc tctgtacaga gaacgctgga aaattacgtc gcatccgang 300
ccacaacaaa taagcttgcc agagatgcct tctgttcctg gcttcgcgct tacaccgccc 360

<210> 7792
<211> 388
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-032-Q1-E1-B3

<400> 7792

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agatcgtgca cctggcggcg gtgctaaacg gcgaccacca gctcaacagc ctgcaggaga 120
ggatcaggga gaggatgaac gtgaggaag gcacctccta catgaggagc gccgtgcggc 180
gcttcttcca tgccggcatg tcggccaaga ggatgggcct cgccgacgac gagcagatcg 240
tcaagattac gcctccctt tacaccagca atgacctcct cccctgcaga ttaaagatga 300
tagtccgtag agagcaacca tgcatacata cataggatga acattgatgt tggaattacc 360
acaatttcta gtaccacaga tacaatac 388

<210> 7793

<211> 108
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-032-Q1-E1-B4
 <400> 7793

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 tgcggtgccc cctccacgtt tactcctccg gtcattattgt cgtagtgc 108

<210> 7794
 <211> 417
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-032-Q1-E1-B6
 <400> 7794

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 taaaccttct ttactgtctc ttgttgcttt acaccctccg gatactcaac acaaccgaga 120
 gggatgctgg cgttgttggc atttcgccac gtcagacgaa tgcacatacc tggaaattca 180
 gggttcatta acaaggggcg tactcagccc ggtatatgtt gtaaagtccg aataccttat 240
 ggagtgttcg gcgtcgcgag ttgggcctta tatgcatcag ctccgaatca tgtctttggc 300
 caatagttgg gttttcccg ctcctgtgtt ttgctacctt acgttccgct ctatcggcta 360
 tgggtggcacc gggggaactg ctgcgattgt gccctgggtc atctggatga gcacctc 417

<210> 7795
 <211> 324
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-032-Q1-E1-B7
 <400> 7795

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 ctttactgtc tcatggtgcc ttacaccctc cggatactca acacagccga gagggatgct 120
 ggcgttgttg gcatttcgcc acgtcagacg aatgcacata cctgtaaatt cagggttcatt 180
 taacaagggc gttactcagc ccggtatatg ttgtaaagtc cgaatacctt acggagtgtt 240

cggcgtcacg agtttggcct tatatgcac agctccgaat catgtcgttg gtcaatactt 300
 aggttttcac ggctctcgtg tctt 324

<210> 7796
 <211> 448
 <212> DNA
 <213> Triticum aestivum
 <223> unsure at all n locations
 <223> Clone ID: LIB104-032-Q1-E1-C1
 <400> 7796

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 aggagtatga caacccaag gccagtgcg ccaagaaga acaaataggc gagggtgagg 120
 agaatggcga ggatgatgag gaagaacaag aggagcaaga gggaggagga ggtgacgacg 180
 atgatgatga cgacgacaac gacgatgaca atgaggacga cgacgatgat gacgatgatg 240
 tcgctgctga agacgatgga gatggagtag aagaggagga tgatgacgat gaggaggang 300
 aggacgatga ggacttgctc cagccccga agaagaggaa gaagtgaagc ccttcgaagc 360
 ggctgcttta gttcacatgc gacgagatgt gcctgtcctt cactgtgttc tggaaacttt 420
 ccttagagtt aaaaatgccc ccacacga 448

<210> 7797
 <211> 310
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-032-Q1-E1-C11
 <400> 7797

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 ttccaccatt ctggggattc caagatgaaa gtgaaccga cgactaccg ggagccaagg 120
 ttttacacca aggtgtttta ggaatgccac tcctatgacc aagatgggaa ttcctttgag 180
 ctttctctgg taacttcaa gtgcattgga gcttatgtga agagcaagaa gaaccagaat 240
 cagatatgtt ggctatggga gaacgtcaag tgcacagaag acaaatgcct tcagagattc 300
 ctggacaatg 310

<210> 7798
 <211> 405
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-032-Q1-E1-C6

<400> 7798

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 taaccgtgtt cttcaaata gtgatggaac ggggggcaag aaaaagtgg ttataacttg 180
 aactggttgg gcagggtcaa gtttcttgag aaatatcgac acttctttgt atgatgtcca 240
 tgtggtatca cctcgcaact attttatgtt cactcctctg ttgccgagtg tgacatgtgg 300
 cacggttgaa gcacgcagta ttgtggagcc aattcgcaat attgtgagaa agagacgtgg 360
 tgcattcaga ttctgggaag cagagtgcta caagattgat ccaac 405

<210> 7799
 <211> 435
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-032-Q1-E1-C7

<400> 7799

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 ttttgctctg gatcggtaca caaattgctc aggttttctt aatttggtag gatttttgga 180
 gttacagaag tattcgagag ttacaaatta ctacagacta ttctgttttt gacatatctt 240
 gttttctatg tgttgtttgc ttattttgat gaatccgtga gtagtatcgg agggatatgaa 300
 ccatagagaa gttggaatac agtagatatt acaccaatat agaaaataaa tgagttcaca 360
 acagtaccaa aagtgggtgat ttattttctt atactaacgg agcttacgag ttttctattg 420
 agttttgtgt tgtga 435

<210> 7800
 <211> 417
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-032-Q1-E1-C9

<400> 7800

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atcattgaaa tcatcatgcc tagctagggg cgtaaaccgt tagcgcttgt tgggaggcaa 120
cccaatttta tttttgttcc ttgctttttg ttctgtttaa gtaataaata aatcatctag 180
cctctgggta gatgtgggtt tatgttttaa ttagtggttg tgccaagtaa gacctacagg 240
atcttcttgg atgataatta ttgatcttg ctgaaaaaga cagaaacttt ctgctcacgt 300
aaacaattgt taaaaatcac cagaaagcga taaaatactg attccaattg cagtagatca 360
ataatcaaat tatataggtc ttctattttt ggcagatttt tctgagttcc agaagtt 417

<210> 7801

<211> 409

<212> DNA

<213> Triticum aestivum

<223> unsure at all n locations

<223> Clone ID: LIB104-032-Q1-E1-D10

<400> 7801

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cgagagaagg tgctctacgc cgtcaagcgc tactggaccg ccgacagcga caagagctcc 120
caagagaaga aggcaacttc ttctgagggtg tgaaatataa tggtagtgat gatgagctga 180
gctgatgcac tgcaactcag gagatcagcg tgtgtttatt tcaacttctt gtgagtttct 240
ctcgagtgtg gcagtgagat cagcacgtgt attccttttt gattacgtcg tgtaggatga 300
acacttcttt tccatttttt cgagatgaga tggtaggaaa tattcgacac aaagatctac 360
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<210> 7802

<211> 436

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-032-Q1-E1-D11

<400> 7802

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 ggaatgctgc catcagtcga tttagcatca tgaagtgtga tttttggagc tgctgctttt 180
 gccttccttg cagtagactc tgtcttcttt cgtgggtttg gtttctcatc aacggaggag 240
 tcatcgttac tggatagctc tgtttagca tctaagtc gccgtgacat tgcttcctga 300
 agttacagaa gaagatcagt tgtcattgct caggtacatg aatttcaatt gcatgtaaac 360
 ctaagcaatt cagaataaag cagtgcataa aataagatat gccattgca caatgctcct 420
 gattcacaca tacact 436

<210> 7803
 <211> 401
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-032-Q1-E1-D12
 <400> 7803

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 tccattccat aatgtagtgt atatagattt ctacaatagt taaactttgc aaattttgac 120
 aatgcttcgt gataaaaata tttatattta aaataccaaa tgcataactc tggatacatc 180
 atgagttaac tattcatatt atatatgttt gacattgtac atatagatag tttgttcata 240
 aacttagtca aagtttggtta agcttaactt ttcaaaaaaa tccttttttg cggtaaatta 300
 tggaacggag ggagtgccta gaattgcaat ttgaagttac acataagggtg ttttccttgg 360
 agttcacgat tagaacgtaa aacagaatgt atcacctgt c 401

<210> 7804
 <211> 438
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-032-Q1-E1-D2
 <400> 7804

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gttggtcag gaggttcgag atcgagcttg ggctgctgat acctcttctt cgccgcccac 180
caggaatagc atgagatgag cagccaatcc ctcatctcta gctttcatac caagattctg 240
tgcaccggtt cccctacggt tgaagatgga gagccattgg tagtagagag ggggaaggga 300
tgtagagacg gaagcagctt cacttgcccc gtctcccacc ccattgccga tgcagcggtc 360
gaaggagttg cggacctcgc caacaagcct gtgacctgc atcagcgatg gcttgatgta 420
cgcactggaa acctccta 438

<210> 7805
<211> 447
<212> DNA
<213> Triticum aestivum
<223> unsure at all n locations
<223> Clone ID: LIB104-032-Q1-E1-D4
<400> 7805

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cctaagatgg gatctcgtgg atacagaaag ttgcggcggt ggaattacat ttttggctcc 180
gtatctgttc gtttgggggt acgtaggat atataaggagg aagaagtatg tcggtggagc 240
tctgaggggc ccacgaggca ggggggagcg cccccaccc tcgtgaccgc ctcttttgtt 300
ccttggcgta nggtccaagt ctctggatt acgttcggtg agaaaatcac gttcccgaag 360
gttttattcc gtttggactc cgtttgatat tctgtttctt cgaaacactg aaataggcan 420
aaaacagcaa ttctgggctg ggcctcc 447

<210> 7806
<211> 395
<212> DNA
<213> Triticum aestivum
<223> Clone ID: LIB104-032-Q1-E1-D9
<400> 7806

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aatgacaacc acggtagaaa gcatgtttta taaattctta gaaggactta aactacctac 120
ctcgtcgttg aaagtgggtg atcccactaa caaggtgaca gatgctaact ctgacaaggg 180

ggaagctaag agtgagaagg gtccttctac tagtggtaga atggcaccga catctttgcc 240
catgtagaac ctccaactta tggaggaccg attccctcta ctcatTTaaa tcatgccggg 300
cctcctaaga ttgtgaaaaa tgaggatttt gattcttggg tgtatcgctt caagcgcat 360
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<210> 7807
<211> 449
<212> DNA
<213> Triticum aestivum
<223> Clone ID: LIB104-032-Q1-E1-E1
<400> 7807

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acgacgacga cgacgatgat gataggaagc cacgttaca gaagcacgat gatgatgatg 240
acgacgacga tgataggaag cagcgtcgcg ggaacaaccg ccgccgccac gatgacgatg 300
actgattatg acatgagttt aagctgacgc taataagcat agttcgggcg gctttgcac 360
gatgaattac gacatttcac tttttttcca agcatttttc atttcgctgt tcaactggcca 420
catgcttcca atcgtatgct cgagcttct 449

<210> 7808
<211> 312
<212> DNA
<213> Triticum aestivum
<223> Clone ID: LIB104-032-Q1-E1-E12
<400> 7808

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cctcactgca gatgtcctac catcagccca gctacacaca tgtgcatcac gtcaaccatt 180
cgctagctgg cttactctac agtatgcaat catgcatgtt ccgtcgatgt acttcatcaa 240
ccttaattgt caatgggaca ctactttat actgctcaag tcacgtagca gtagtgtgcg 300

atactcacaa ca

312

<210> 7809
<211> 453
<212> DNA
<213> Triticum aestivum

<223> unsure at all n locations
<223> Clone ID: LIB104-032-Q1-E1-E2

<400> 7809

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gaatgtgcta atggagtcaa aggggtggcaa aaagtctagc agtagtagtt ccctgatgta 180
cgaagctccc ctcggtcaca gcattgaaga cgttcgacct gctggaggcg ccaagaagtt 240
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tcccgtagtt taggattttt atgcaatttt attctgactc ttttctcnca ccaatctctc 360
tggtttgctg cttcacgata atcgaccagt tctctagtct ttctcnctct gtteectctct 420
gctctgcttt ctgactcaaa actgcaacaa tgg 453

<210> 7810
<211> 449
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-032-Q1-E1-E3

<400> 7810

gggtcgagcg ggatattaca gtagaaacaa cgcaaaaaca aaatatgaat tggtttgcaa 60
cagttcttag agtagtgatt tgctttatta tactaacgga tcttaccgag ttctctgttg 120
aagttttgtg tggatgaagt gttcgatgat cgagaaggtc tcgatgtgag aagaaggaag 180
agaggcaaga gctcaagctt gggatgcccg aggcacccca agtaaatatt caaggatact 240
caagcgtcta agcttgggga tgccccggaa ggcatcccct ctttcttcaa caagtatcag 300
tatgtttttg gatttgtttc gttcatgcga tatgtgcaat cttggagcgt attttgcggt 360
tagttttcat ttttatttta tgcaccatga cggtatgata tagtccttgg ttgtttatag 420

aatgctcatt gcacttcact tataatcttt

449

<210> 7811
<211> 440
<212> DNA
<213> Triticum aestivum -

<223> unsure at all n locations
<223> Clone ID: LIB104-032-Q1-E1-E4

<400> 7811

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caggttcacc gattcagcgg taacagttac aaagggtaca ccaactanggc cgaggccgaa 120
tctagatacg cccgctatct agcgggagag gggagggagc attggaggaa ccggatgaag 180
acgagtttca tcgtgatgat gctcatcgtg atgacccag ctctcttcta tgtgatggta 240
gttttagatga tcgatatcga cttgtaatgt gaagacaaac tcgctactcg cggctctcgag 300
acttgtaata taatgttcta tctctgttcg gtcttttcaa ttcggagact aatatgatga 360
attgtattcg gagactaata tgatgaattg tattcaaaga ctaatcttct attgtattcg 420
atgaatctgt tgttgatgtg 440

<210> 7812
<211> 464
<212> DNA
<213> Triticum aestivum

<223> unsure at all n locations
<223> Clone ID: LIB104-032-Q1-E1-E6

<400> 7812

cccggtcga cggggaagaa tgacgaagac acagaagaag aagaaaaaga agaagaagaa 60
gaagaagaag aacaagaaga acaagaagaa caagaagagg aggaggaaga agtagacgaa 120
gaagaagagg aagaagaaga agacgacgaa gaagaggaag acgaagaaga agacgaggaa 180
gaagaagatg aagaagacga agacgaagaa gacgaagaag aagaagaata agaagaagaa 240
gaagaagaag aagaagaaga agaagaagaa gaagaagaag aagaagaaga agaagaagaa 300
gaagaagaag aagaagaaga agaagaggcg attgaaaagc aaacggaaga aatacagaca 360
gatgagcaga aacatgatga cagtagggct gatttcacca cagagacaat attggagccc 420

cagagcaacg anattgacac aacaaatagg aaagacaacg ctga

464

<210> 7813

<211> 387

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-032-Q1-E1-F11

<400> 7813

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ggtgaagcgc gacaacatct gcagcttcat ctcgagacc aaccccgggc acttgcggtc 120

gtgggagacc aaggacagcc agctgacgat ggtggcgac gacctgaagc cgcgggcggt 180

gctgacgtgc ccggagaaga agttgatcca gcaggtggtg ttcgccagct acgggaaccc 240

gctggggatc tgcggcaact acacggtggg caaatgccac acgccaagg ccaaggagat 300

tgtggagaag gcgtgcgtgg ggaagaggag ctgcgtgctg gccgtgtcgc acgaggtgta 360

cgcgggggac ctcaactgcc cgggcac 387

<210> 7814

<211> 383

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-032-Q1-E1-F12

<400> 7814

gcgcaaagag agacgcttga ttttgaaca acagctagct tcttctcaag ttcctaggga 60

ggagcagata aaattgataa aggagttgca gaggaaggag actgaatata tgagacttaa 120

aaggcataga atttgtgtgg atgactttga gctgctcacc atcattggaa gaggtgctta 180

tggggaggtt caactatgcc gggataaatc ctctggtaat atttatgcaa tgaaaaaac 240

taaagaagtc tgaaatggtt gtcaagggtc aagtggagca tgtagatct gaaagaaact 300

tgctggctga agttggtagt cactgcattg tgaagctata ctattctttc caagatgctg 360

agtatctcta tcttatcatg gag 383

<210> 7815

<211> 395

<212> DNA

<213> Triticum aestivum
 <223> Clone ID: LIB104-032-Q1-E1-F2
 <400> 7815
 cgtaatactt acgtggacga gcacctgatg tgcgacatcg agggccacca cctcgccctcc 60
 gccgccatcc tcggccacga cggcaccgtc tgggccaga gcgccgattt cccgtcgctc 120
 aagccggcgg agatggccaa catcatgaag gacttctacg agccggggac cctcgccccg 180
 accgggctgc tactcgcaga cgccaagtac atgggtcatcc aaggtgaacc tggcaccgtc 240
 atccgcggca agaaaggccc gggaggcatc accctgaaga agaccgggca ggctccggtg 300
 gtccgcatct acgacgaccc catgacctcg gggcaatgca acctggtcgt ggagacgccg 360
 ggcgactacc tggtagacga gggcatgtcg acgac 395

<210> 7816
 <211> 447
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-032-Q1-E1-F6
 <400> 7816
 attcccgggc cgacgggtca ctcaatctct ctctctctct ctctctctct ctctcttttt 60
 tgagggactc attccttctt cttaattctg ctagtcagtg gcagaaaact ctttgtggaa 120
 gggaaatccc atgcggctgt agccaaatag cgctattaat tttccttgaa ccagataagt 180
 gtggcgtgct ctcaattggt gtaggagatg ggatcatacg gacttgtatt tgtaatttgt 240
 tttatttttg aaggtagcta caagtaaatt gaaatcttgt tcatttcttg ggtgtgacaa 300
 gtgctcagtt gacttagatt tgggtaagtc taagtcgggt gatatcagca tgtttctacg 360
 ttatttttct atttttatgt tttctacat ttttttaagt gcagggtgaaa aaattaagaa 420
 tttaaatatg ttttcgcctt ggaaaaat 447

<210> 7817
 <211> 414
 <212> DNA
 <213> Triticum aestivum
 <223> unsure at all n locations
 <223> Clone ID: LIB104-032-Q1-E1-G10

<400> 7817

gtcgacgcgcg tccttaacat gtagtctcaa aatcgtagtt agattttggt acgttaaacc 60
aggttgctta tgtcatgtgt gtcattggtg aaccagtttg attatgtcgt gtttggttagg 120
gttgaacaag tttgtttatc tcattcaagta cattgttttc ttatctcatt atataagttt 180
gctagcttcg tattttgttt atccatcatt tcaaattcaa gtagcttgcg agtggaactt 240
tgtggctgct gttcagtact agttatcaag caactattca cacaagggtc ttccatgtgt 300
agtttggtatt cagcattgta tggaaaacat aacgttgaaa acaatcagta caatttgagc 360
tgcttagcag cgcttcanaa gttgaagtaa tttnttttag tacttcatgt actg 414

<210> 7818

<211> 329

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-032-Q1-E1-G11

<400> 7818

gtattatcat ggttgagttt tggtacgttg atgcagggtg cttagggtcat gtgtgtcatg 60
gttgaaccac tttgattacg tcgtgtttgt taagggtgaa caagtttggt ttatcgcatg 120
aggtacattg ttgtctgac tcattataca agtttgctag cttcgtagtt tgttttagcca 180
tcatttcaga ttcagggtcc ttgcgagtgg aactttgtgg ctgctgttca gtactagtta 240
tcaatgcgac tagtcagaca gaggtcttcc atgtgtagtt tgggctcagc attgtatgga 300
agacatagcg ttggaaacag tcagtagag 329

<210> 7819

<211> 368

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-032-Q1-E1-G12

<400> 7819

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gtggccattg ccaccctgat attgtcaagg ccgtgcagga ccagaccaag ttgcttcagc 120
acaccaccac catatacctg catcatgcca tcgtcgagtt tgccgaggcg cttgcctcca 180

agatgccagg caatctcaag gttgtgtact tegtcaattc tgggaccgaa gcgaatgaac 240
tagcaatgtt gatggctcgg ctgtacagcg ggaatctcgg tatgattgca ttgagaaatg 300
gataccacgg tgggagtgtt ggaacaatag gtctcacggg tttgcagacg tggaagtacc 360
cgattcct 368

<210> 7820
<211> 434
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-032-Q1-E1-G4

<400> 7820

tggtttagct tacatcggat atgtaaatcg agcagtaaaa tattagacac agttgaaactt 60
agactacctc catactccta tgattctgag gctgtttgga tacgaattcc acggtcagca 120
aaaatagctg tggaggaaag gaaactagag tttcgtggtg gttcacatgc tgcttcacac 180
gcactcttga atatattgcc tctgcatatg atgtgtagtg cttctgacct ggggaactgag 240
tgcgtaaatc ctcatgaaac ccgtggtatg cctgaaagaa ttcttttata cgataaacac 300
ccagggtgga tcggcctggc aacgcagggt aaaaaacttt ttgggggaact tctgcttgct 360
gcttttagagc ttgtttcgac atgcagttgc cctagtgcct ctggctgtcc gaattgtatc 420
caatcattga catg 434

<210> 7821
<211> 423
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-032-Q1-E1-G5

<400> 7821

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tccatgaaga tcattggaca aaataaactt tattcttagt aatagttttg agatatgatg 120
atgtgatatg tgagttatgt tgatgagtaa ttgtgctcta gtaagaatat tgggtgtaa 180
gtttgtgatt ccctatgcat gcacgaaagt caatagtcac gcagtgaata ttatgtccta 240
cttgtgggtgc attatttggg gttaattatg cttaatgctt gcttatgaga ttattcgttt 300

cttgggttggt cttttcccaa acttttgcta accttcattt tgcactaagt atgacctcta 360
 cttgtgcttc caaaatcctt taaaccagtt ttgccacatg agttcactat atctacctat 420
 atg 423

<210> 7822
 <211> 422
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-032-Q1-E1-G6
 <400> 7822

gacgggggag ccaatgaggg ccactctcga cacgctgccc ccacacacac acaccacccc 60
 ccggggccgag atcgtcttcc tcgattcaac gagagttgga agcgggatag ttcttggggc 120
 accggaagcg tcgcacgcat ggcagatgag gaggtatctg acccaaaggc actcctagag 180
 gatcgtacga aggctaagtg tgtctaccac tggatatgaat atcagaaatg cgttaagaga 240
 attgaaggtg atgagaccgg gcagaagcac tgtactggcc agtacttcga ttactggaaa 300
 tgcacgcaca agcatgttgc tgagaagctc tttgatagct taaaatgaca aggaaattgt 360
 tctctctagc tacttttcac tcaacagtgg taataaatag tatcacttgc acgccttatt 420
 ga 422

<210> 7823
 <211> 392
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-032-Q1-E1-H10
 <400> 7823

tggatcagta atactgacac acacagtact caaaggattt ataacaaagt gcaatcacac 60
 acttattaca tcgaatgtct caaaagagaa cttattacaa aaatatggct taaggccaac 120
 taaataagat aactgcggaa gcatcgaaga taaatgagtc catcaactcc aatggcatag 180
 ctgagtgcac gacaacgacc tagcgacact tactcttcgt ctgaaaagtc tgcaacataa 240
 tacgttgcag cccgaaacgg gtcagcacat ggaatatgct ggcaagataa cactgtagag 300
 caatgaacaa tgaacaacta taactatatg catatatggc tgggtggaggc tctatgggta 360

tttatgcaga aagctaattt ttcctataa ca

392

<210> 7824

<211> 341

<212> DNA

<213> Triticum aestivum

<223> unsure at all n locations

<223> Clone ID: LIB104-032-Q1-E1-H11

<400> 7824

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tgcattcgcc gtgtcagcgg ccaggcgacg cggaggggat gaagggcaga gagagaacat 120

gtttctgtct angtcacact gcttacttan gggaagtga gggcccgaca gaaggcatgc 180

aaatattgaa gagggccgag actaatttgt taactgtgat tttaaggttt atcgtctgtt 240

tattttctaca attttatttc aactttctat acatgcatac atgcaaaaata cgcaagtga 300

catgtgtgca attttccccg cgccgatgaa aacattttta g 341

<210> 7825

<211> 427

<212> DNA

<213> Triticum aestivum

<223> unsure at all n locations

<223> Clone ID: LIB104-032-Q1-E1-H2

<400> 7825

tatacgactt cttccctaac gacgagaaaag tggggatgaa gcacatcaag aagtaggttg 60

aaatgatgaa cgccgagaaa gtctcaaggg ccatattggt tgtgcaacag aacctcacc 120

catttgcaaa atcttttctt caagaactgg agccaaagat ccacttgag gttttccagg 180

atgccgaaat gcttataaat atcaaggaac atgttctcgt tccggagcat caagtgttg 240

ctaacgagga aaagaagacg ttattggcgc ggtacgcttt aaaggaaact cagctaccaa 300

gaatacaaat tacggatccc attgcgaggt actacngcct caaacgaggg caagtggatga 360

agatcatcan ngccagcgag acagccggca gatacgtcac atatcgctaa gttgtatgac 420

agtacac 427

<210> 7826
 <211> 453
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: LIB104-032-Q1-E1-H6

 <400> 7826

cgggccgacg gggattatca atttaaaacc tgtgtctttt tctttttttt cctagtttgt 60
 attctgtttc tttttcattt tctcgttttc ccttttttat tttccaaaaa tgcttattct 120
 tttaaaattg gttcaaaatt ttaaaacacg tttgtttttt caaaatatgt tcaaggaatt 180
 aaaaatattt ctattttaat aagttgtaga actagtgaag atgtttgtat cttaaaaatt 240
 gctcacattg aaaaaagacg aacattttta aaaagagcga acaaaattta gatcatggtt 300
 ttttttgaat gtagaaaaga ttagaaaacg ggaacatttt ctaaaattct gaacaaattt 360
 tgaaagcatg agcattattt gaaactcctt gaatttttta acattgaact tttctgaaag 420
 ccatgagcgc ttggctggcc gaacgggtgc ctg 453

<210> 7827
 <211> 389
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: LIB104-032-Q1-E1-H8

 <400> 7827

gggacatgct agatgacgtc attgttgacg aaacggcaaa tgcgacacct tcagagaatg 60
 aaccagagga gccggaggca accgcaaagg cttttttgga ggtcatggcc tcgtcgaaga 120
 aacctcttta tgcgggtgcg aaaatatctc agctggatgc catctcgcaa ctgattgcag 180
 tcaaggetga gtacggctgt agccagaaat gcttcgaagc attcctggga gtatgggcta 240
 acagcctccc tgagggtcat gaactgccga aaagcatgta cgatacaaag aacatcatga 300
 aggcactctc tatggattat gacaaaatag atgtttgccc gaagaattgc cttttgttta 360
 ggcacgagta tgcggatgac atgtactgt 389

<210> 7828
 <211> 57
 <212> DNA
 <213> Triticum aestivum

LIB104-032-Q1-E1-H9

<223> Clone ID: LIB104-032-Q1-E1-H9

<400> 7828

gtcgtattac gagcaagatc gtcggcttcc tgactatacg cttcgtcggc acgtccg 57

<210> 7829

<211> 168

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-033-Q1-E1-A1

<400> 7829

cggggagcga cagcgttttt atgtgcattt gtatgcacga cttgttgagc acgacatggg 60

catgaatgca tgttcgggtga tttgcttcgt cgatgttcat accgacttct acatcatgag 120

atctgtacag ttcatgtaat catgtgcacc tttctgtgag aactctgg 168

<210> 7830

<211> 436

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-033-Q1-E1-A10

<400> 7830

attcgccggg cgacgggggg caagaagagc agcacatgat agcttttccc cacggatcct 60

tctcgtcttc cactgatc aagtcgtctc gcctctctcc gtcagcccaa acatggacgc 120

aagcacgcgc ccgagtggaa gccaccaatt gcctgctgca gaacaagaag ctgagcagct 180

tgtaaatgct gctagggctg ctaaaacggc gaggcttacg caagccacat aagaggctga 240

gagagaaata gctgagtacc gtgcacaaat ggaggctgat ttccagagga agtcaccga 300

gaccagcggg gactctggcg caaacgtcaa acgccttgag caagagacaa acgtaaagat 360

tgagcagctc aagcagcagg cagcaaacad ctctccagag gtgattcaga tgcttctgag 420

gcacgtcacc actgtg 436

<210> 7831

<211> 426

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-033-Q1-E1-A11

<400> 7831

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tacacgaaat cgacgcgcca ggccgcaaaa aagaccaaca aggccaccgc caatgtcggc 120
atggctggct acgcatgacg agggagaagg actctggttt gatggaactt gcttgagtgc 180
tggatttaga tagatattct ggagcagaac gtagtagttt ctggaaaatg tagcgtgtgg 240
tatggctctc tatgatcaga tcagatgtgt ttgttcaggc ctagttctcg tcttgccctga 300
tctacagaat atttgatgtc caagacagcg gcattgtgat actcctagat ccaagttgtg 360
agagtgagca tgatcatatg agaggggtga accggatggc cactgccaa cgggctaaga 420
atTTTT 426

<210> 7832

<211> 444

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-033-Q1-E1-A12

<400> 7832

attcgccggc cgacggggag gaggtagcgc ccagggccaa gccctggct aaatcgtaag 60
tatccggata cccgagtaat tcatactatt cctttgttgc acagctttcc cttatgtcga 120
atatgtttat gtagccaccc aaagaccgac tcgatgcgtc gtcgagcggc tccactggact 180
cgtcggatgt gaattcgctt ccgacggctt cctccccccg ccctacggac gacactgaag 240
tgttgtccca ataggttcca atccaggagg aggtggctct ggaggcgccg caaggtgacc 300
tcccggaccc caggagtga ggggacagaa cccccaggc ctccaagtcc ggccttaggc 360
cggacaccgc tccggaacct tcaaaggctc cagagtccgg cgggagacct ccttccaaga 420
ggatcaagcc caccgtgccg ggga 444

<210> 7833

<211> 416

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-033-Q1-E1-A2

<400> 7833

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actctcctag taggaatatg tatgtgaatc accacagaac accccctaca gcacaaacta 120
ttttacataa ttacatttca cttttcacct tgcacgattt cctctgtgat ttccccata 180
tatgacttgt ctgttttgtg aggtatggta gtgctcacat aattttcttg tattggacga 240
tgatgctata ggtgtcgagc tttgcatat atgatgatca actgcatgca tagaaagata 300
tagcagttga tttgcttcat agtatgttat tgctaggctg ctagttttgt gtcactcagt 360
caagtaggtt atcatatgct tttagtgttt gcgagctatg tgcataatgta tacata 416

<210> 7834

<211> 363

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-033-Q1-E1-A3

<400> 7834

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cggcgttggt ctcgatgtg tacagaataa ttctctgcta tcaggtggta ataacgcacc 120
ggaacggacg ctgttcttga tgcgcggaat ggcaaggcaa agcattcttt caccgagcaa 180
tggtgattga cgacttgatt acagacaaga tagatttggc acattcttac ctgtaaagat 240
aatttgccaa ataaagccgt ttataagctt tgccactttg ataattctct gtactgacac 300
aatttgaaag aattcctttg acaaaaaaaaa aaaagacaaa aaaaaaaaaa aagcggccgc 360
tct 363

<210> 7835

<211> 352

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-033-Q1-E1-A5

<400> 7835

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gtttgtgact tcggccaagc caagtgtatc atgtacatac cacggatttc ccgaacatca 120

cactaagggc tgggtcaacag ctcttgcaat caaacttcca agggtaaagt aaagcaatta 180
 agccgcataa tccttctctc aacaataacg ccttcgggaa acgagacgtc cgctaaaggt 240
 cataatgtgg aggatgaaac accccttgta gcacctacgt ggggaaagaa gccacgact 300
 ggcaaatttc aagataaatg tggccgcata tggatcaaaa tttaactaag aa 352

<210> 7836
 <211> 355
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-033-Q1-E1-A6
 <400> 7836

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 cggccggcga cggcgaggtt cctggcaciaa ggcctcgggtg ctatcgtacc cagcaggagc 120
 gtatgcgtat acagagagag aattgttctt aatttcagtg cccgttggtt taggttctac 180
 atatatactc ctaaggtgat gcacgcatga tcagtactgt acccgcctac ctgtgtgcgt 240
 gtgtgagata tttcatgtat cgtccgtgt gcagtgccat attcatgcac cgcgtcgtgt 300
 gtaattaacc ggtgtgtacg agaccgatat actactcagt aatactgtga ttgag 355

<210> 7837
 <211> 340
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-033-Q1-E1-A7
 <400> 7837

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 cccccagacg taaaaggcca agttatgggg attgtttgta cggcgggtggg tggcatatgg 180
 ctttggttgg caaaaagctg gcatccgacg caatgttgga caaggctctg tgcgtctgcc 240
 cgggccgtcg gccagtaaaa acatgtacaa aaggccttgc ttacaagggc ccgacctgcg 300
 gtgtggtaac taaggaagcc ctgaattagg gggatatccg 340

<223> Clone ID: LIB104-033-Q1-E1-B2

<400> 7840

gggtcgaccg gcacaaggag aagaaggaca agaagaagaa gaaggacaag aagcacggcg 60
agggccacaa ggacgacgac ccaccacaac accatcatcg catcccatta gcatcgccag 120
tttccttgga gagaagtagc cagaaacagc agcgccatgg ccggcatcat gcacaagatc 180
gaggagaagc tccacatggg cggcggcagc gacgagcaca agaaggacga ggagcacaag 240
aagaaggacg gggagcacaa gaaggacggc gagcacaaga aggacgggga gcacaaggag 300
ggcatgatgg agaagatcaa ggacaagatc agcggcgacg gccacggcga cggcaagaag 360
gacggcgagc acaacgagaa gaacgacaag aagaagaaga atgacaagaa gcac 414

<210> 7841

<211> 351

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-033-Q1-E1-B3

<400> 7841

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aagccccgta ggagacagag aaagggcatt ttcgtaccg atgctcatct tttggctgtg 120
attatgaaac catcattcgg aacaaatctt cagttgtgga ttaaatacgtt ctgtagtgat 180
ctttcgggct gtttattttt tcttttcctc tttgaatgtg ctgtagtggc cttattacat 240
catcgtatctt gtcttcgaga acaaaaaaaaa aaacaataaa aaaagaaatt actgcagcac 300
aaaaagatac aaaggtgaaa taagacgata aatgaaaaaa cataaaaagc t 351

<210> 7842

<211> 450

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-033-Q1-E1-B6

<400> 7842

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tgaacacggt ttttgggtta tgtttgacgt aagtatgagt ttaggatcac ttcttgatca 120

ttgctagctt cagcactgta gcgacccgac ccgaatggat cgaatatcta tgcttaagtg 180
 tcatccctgg atcggtatgc tgacacatac agtactcgag gatttataac agaggtaaatt 240
 cacatgtata aagtaacgta aatattatta cctcgaatac aaatagcgga agtaacaagg 300
 ttgtggattc ccatcaacac caacgacaaa gttgagtgtg gaaaccgtaa ccctaacgta 360
 tcacttactc gtcgtaagat atcttgcaac atgagacggt gcaaccatgt aggtcagtac 420
 attcaatgta ctggcaaatt cacaccatag 450

<210> 7843
 <211> 416
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-033-Q1-E1-B7

<400> 7843

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 ggagggcatg gcacggtcta caaagggatc atgtcagacc tgcattgctg ggcatcaag 180
 aagtccaagg tcgcgatcca gaggagatc gacgagttca taaatgaggt agccatcctc 240
 tcgcgatca accatcgaac cgtggtgaag ctctttgggt gttgccttga gacggaggtg 300
 ccgttgctgg tgtacgagtt catctccaat gggactcttt accatcatct tcatgtccaa 360
 gaacccgcgc catccctagc atgggaaaat cgggtaagga tcgcaaccga aactgc 416

<210> 7844
 <211> 402
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-033-Q1-E1-B9

<400> 7844

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 ccaagctcaa gtccgtctcc atctccaagc ccaagtccaa gatcgggtcc gccaccagct 180
 ccgccccggg ctccgggtcc aactcgtgat aggtgatag gttttcatat ttgatagctc 240

tttatatgtg gttgaggaga gactgcatat tatgtttgat tgcaagcttc gagtcaactca 300
 ttatgatagc tctttagtta tatgatcttc ttggtattgt ccaactgtaat gtatggcgcg 360
 taacatattt gacctgctat agcttaattt tcatgccttg cc 402

<210> 7845
 <211> 422
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-033-Q1-E1-C1
 <400> 7845

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 ctgtgcaatc atcagaccag ctggacgagg cttgtcctgt tttgactagg atagttgaca 120
 atggaagaaa ttgatatggt gttgagctat tagtaggaat gcaatagctg aattacagcc 180
 ctcttgattt ttttcgatat tggttcgatg ctaaaaatag tacacaacct aacagaaaga 240
 gaagaattgc cctctgtaat tcagcatttg ctgctctgtt ttcattgttg cctctgcatc 300
 ttgcttattg ctgtgcaacc gtcatactag ctgaccagg tttgtcttgt tttgactaga 360
 ataattcaca atggaagaaa ttgatatgat gttcctccga ttattagagt gtaacggctg 420
 aa 422

<210> 7846
 <211> 428
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-033-Q1-E1-C10
 <400> 7846

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 cagcaacagt gagtgtgaag gggaagtcgt cagaatgagc cgctgtgcca ccatttctgt 180
 gcctcgaaca ccatctgcaa gcacagtttt ccccatcata gtgccacaaa tctcagactc 240
 cgttgcaactg gatgctcaga tcatttctgg gtctgcaaat gcaatgcagc gcactaccac 300
 cagcattgcg gttgtcgaaa aaccagtgcg gaacagaatc gaggtctgca tgggtggcaa 360

atgcaagaag gcgggctcgc tcgccgtcct gcaggagttt gagacggtgg ttggcacggg 420
cggcttgg 428

<210> 7847
<211> 430
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-033-Q1-E1-C11

<400> 7847

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agctcacgcg ggccgcgcac cgggcgatcg agaccgtgca gcagctcata ggagagccgc 120
tgagggagga tgggccagtg cttggcgatc actttgatcc gcttcctcct ggtgcattcg 180
gagcgcctat gcctgttggt ccagagcagc ggaagcagcc ttatcgatca catgagacca 240
gtgtattttc tgcacacgat cccaagccca tgaaggcatc agcattcttg ccaagcatag 300
acccttctgt ttcaagtaca gttaccggga agaggaagta catgtctgga aattcttctc 360
atcttccttc acgggcagta catgagtacc agtttcttcc agaacacact agcgatatat 420
atgagagaac 430

<210> 7848
<211> 438
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-033-Q1-E1-C2

<400> 7848

cgggtccacc ggcatgcatt acatatgata tgtgccctct ctctctcacg cacacacgca 60
tcctcacgat tcatgactct cctgagtcct ctgcaccca gcgtctaact gtaggtagac 120
gtcacacaca tatgtgctat tcacacccta ccctcagaac ttctaaaaaa taaaagacgc 180
cgcacacctt ttattttaac tcacacgtca cacatttata ctagtactgt tgtggcgaac 240
attctttggg cgtagtatat tgtactctca cggagagaag cagtgcacgc acacactagt 300
tctctcacag ccactcgga gtacacgtag gagcacattt ttgaagcta ggagcgcatt 360
tgtttcaaaa gaggcacccc aattgacatt ttgactagtc tagttttcaa cttgatagag 420

ggtcgaggac cgcacatg

438

<210> 7849
<211> 423
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-033-Q1-E1-C3

<400> 7849

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agggagggac ttatgtcacc acaaacagaa actaaagcag gtgttggtatt taaagctggc 120
gttaaagatt ataaattgac ttactacacc ccagagtatg aaactaagga tactgatatc 180
ttggcagcat tccgagtaag tcctcagcct ggggttccgc ccgaagaagc aggggctgca 240
gtagctgccg aatcttctac tggtagatgg acaactgttt ggactgatgg acttaccagt 300
cttgatcggt acaaggagc atgctatcac atcgagcctg ttgctgggga agacagccaa 360
tggatctgtt atgtagctta tccattagac ctatttgaag aggggtccgt tactaacatg 420
ttt 423

<210> 7850
<211> 308
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-033-Q1-E1-C4

<400> 7850

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ctgctggagc ttttctccct ccgtgcaccc aagaagcctt tgtgcaaat ttgaaccaga 120
cattgctttt gtagaattgt tgttgcttag tattacgatt ctagcagtag cgctcgcttt 180
atatatcccc tacttttaca tgtactcaat tgtacatagc tcgcccccat ttgtactcgt 240
acgatcttaa agaattatcg tcagagctaa ttgggtgatca tcgtgtacat gctgtttgat 300
gcttaaaa 308

<210> 7851
<211> 436

<212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-033-Q1-E1-C8
 <400> 7851

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 accatgatta acattcttca aataccaaat taacattttt tggatacatg gtcaacattt 120
 tttctataca gattttacat tttttaaatg gttgattaca tttagaaata caagttaaac 180
 attttttaat acatgggtcaa cattttttgc atacgcattt aacattttta actgcttgat 240
 taacatattt catatattta tttattttca aatgcttgga ttaacatgtt ttaaatacat 300
 gatcaacttt tttcatacac attgtatatt tttgtacaca ttttctctat acacataata 360
 tttgtcaaat gattgattaa cattttttgg aaatgttttg atgtagatta tttttgtaat 420
 atgtttatta atagta 436

<210> 7852
 <211> 430
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-033-Q1-E1-C9
 <400> 7852

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 tttcaaagca ttgcaatacc gttttcgctc acttttatca ttagttacct tgctgttttt 120
 atattttcag attacaaaaa cctatatcta ccatccatat tgcacttgta tcaccatctc 180
 ttggccgaac tagtgaacct atacaattta ccattgtatt ggggtgtgtg gggacacaag 240
 agactctttg ctatttggtt gcagggttgt ttgagagaga ccatcttcat cctacgcctc 300
 ccacagattg ataaccttag gacatccact tgagggaat ttgctaccgt cctacaaacc 360
 tctgcacttg gaggcccaac aacgtctaca agaagaacgt tgcgtagtag acatcacctc 420
 ggtgtttggg 430

<210> 7853
 <211> 419
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-033-Q1-E1-D1

<400> 7853

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aaactattta tactatgcat tggcctttac tttgtgagca tgaattgttc tttcatgaca 180
tgccgatgca taggaagaga gttagacttc gttattgctt gatttatgtt actttgtgct 240
cactactaaa ttacaaatca ttgtttatta aaattggcct tgatatacct tgggatccag 300
gtggatccat tacttgagca ctatatgcct agcttaatgg ctttaaagaa agcgctgcc 360
gggagacaac ccgaagtttt agagagtctt tatttctatt gagggtcttt atatagtct 419

<210> 7854

<211> 429

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-033-Q1-E1-D10

<400> 7854

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ggacggcgac gggaagaagg acggcgacaa gaaggaggag ggcgacggca agaaggacga 120
ccagaagaag ccgcccgcg tggccccgct gccgtaccg caccacatgc cgctgccgca 180
ccacatgccg ccgcccata tgttcaacgc cgactacatg atgaaccagt accggccggc 240
gccgccggcc taccgcgcgc cgtacgtgcc gccgcagcac tactacgtgc ggaacatgag 300
catggaggag aacccaaact cgtgcgtcat ctgctaagtc aaagtctatc cctcgatgc 360
tcgcgtacgt cccgtggggc gaccatgcat gcatccgtgt atagtagtat tttctcgatc 420
gtttttacg 429

<210> 7855

<211> 415

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-033-Q1-E1-D12

<400> 7855

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gtccgcgtca gtttctttct gtccgtcttc ttctcccaac tgggtggagt gattgcgggg 120
tttgccttaa actactggtt gcagatacag gagaagtga agtttggtgg ttttcttgag 180
atcattccct tggcacttgc tcttggttcc tggctgctgt tccatggttt ctttggtggtg 240
atctccatat cccaaaactg actctggact tgatgagtat gaagccggct atgagttctt 300
cgaattagtt tgatttatgc tttcttcaaa gttgatgtcc atgtgcggac aagatcaaca 360
tttatgcttc catgtcttag tttttaaaaa aagctgtgcc ccgtgggcaa gagca 415

<210> 7856
<211> 385
<212> DNA
<213> Triticum aestivum
<223> Clone ID: LIB104-033-Q1-E1-D3
<400> 7856

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tgtctttttt gctggttcca acaacctttt cgccggcgga gctgcaaccg gtgtgttgca 180
aagctggaac cagcgtccac cgatgctgga accatgcata tttttgcgac aagcatatcc 240
atgttttggt ggaaaccatc tcatttttgc tggaagtacg cgatctatct ttttgctgga 300
accatatcat ttttttgctg gatccttgat ttttgctgga acgtctttgt tttcgtaca 360
aatggcatcg aaaattgaca ccatg 385

<210> 7857
<211> 452
<212> DNA
<213> Triticum aestivum
<223> unsure at all n locations
<223> Clone ID: LIB104-033-Q1-E1-D7
<400> 7857

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attttatctc tggcttcttt cttatattaa aattatgact agggataacc tgetgaagag 120

aaatttgaac aagtcacattg atttgttttt cttttctgaa cctgagagtg tacagcacct 180
 gttgtgtgac tgtttggttag ctagacttgt atggaagcaa atcagttgct tattctctat 240
 gcaaattgga gtttcagtag agtcagttac ttcccttttg gttgctggta aaataacttga 300
 cgctctgaat actgctgtag ctgctgtgct ccgggctttg tggaaacaca ggaatgccat 360
 gatctttaat tgagttgttt ggttttcctt gaccaagatc tggtcgctga ccttacgaat 420
 gctcaggaga tggcgatcgc tcttcanaca tc 452

<210> 7858
 <211> 91
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-033-Q1-E1-D8

<400> 7858

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 ataaatttgt atcacgtcca ctcatattgt t 91

<210> 7859
 <211> 381
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-033-Q1-E1-D9

<400> 7859

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 ccaaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaacggggccg cccaaaaggt tcaaacctaa 120
 cttacccttg aatgcaactt caaaccctt caaaagtgcc accaaatttc aattcaoggg 180
 ccttcgttta aaaacttctt aacgggaaaa accctggctt aaccaatta aaccccttg 240
 cagaaaatcc ccctttccca acctggctta aaacaaaaaa ggccccacc attccccctt 300
 ccaaaaattt gccacccta aagggcacaaat ggaaccccc cttaccggc ccattaacct 360
 cggcggtttt ggtggttacc c 381

<210> 7860
 <211> 394
 <212> DNA

<213> *Triticum aestivum*

<223> Clone ID: LIB104-033-Q1-E1-E1

<400> 7860

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atgcattgcc ctttctcacc tcgagagttg gttcaaactt cgccggtgca tccaaacccc  180
gtgatatgat atgctcacac ataagcctta ttatatcttc ctcaaaacag ctaccatacc  240
tacctatcat ggcatttcca tagccattcc gagatatatt gccatgcaac ttccatcatc  300
atcatataca tgactcgagc attcattatc atattgcttt gcatgatcgt aagatagcta  360
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<210> 7861

<211> 432

<212> DNA

<213> *Triticum aestivum*

<223> Clone ID: LIB104-033-Q1-E1-E10

<400> 7861

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tccaagttgg agacgctgga aaacgatgat gatccggacg gtgccgaact gagctccatc  120
aatcctcacc cggagagcgg cgaggaggcg gggccaggcg acgtggcgaa agacctgagc  180
aagatcaaga ggcagaacat gatcaccac atcctgctcg gcacggtgat ggtgatgac  240
gccgcgtggc agttcaacga ggtgtcgttc ctccctcgcg tgcagaagaa gctgaccaac  300
cctttcaagt ccgtcgggga catggtcaag agtaccctca agatagggaa gaagccggtg  360
gtcgaggcga tcgaggcgtc gcctctgccc cctgtcggcg tcccgacgt tggtcgggct  420
gatctgccga tg                                432
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<210> 7862

<211> 433

<212> DNA

<213> *Triticum aestivum*

<223> Clone ID: LIB104-033-Q1-E1-E11

<400> 7862

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cgggagcgag tacaggtcga tctgggtgta cgtgggtggg ccggtggccg gagccgtggc 180
cggggcggtgg gcgtaacaac tcatccgctt caccaacaag cccctgcgcg agatcaccaa 240
gagcacctcc ttcctcagga gcatgagcag gatgaactcc gtctccgtct gattccttat 300
cactagcaac gttgtattac tactacaagg ctatgtaatt gtcgtcatcg tggccatata 360
tccatggcgt atcgagtggg ctacactcta ctctctagt ggtcttggcc taactgaacc 420
tgccagagta tgt 433

<210> 7863

<211> 423

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-033-Q1-E1-E12

<400> 7863

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gcccataaac caccttgccc gctttgcacg cgagctcccg atagtgaagg atgtgtatca 180
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ctgaagagaa atcagtctgc gctcgcgcca gcgcgcagcg gctcgtgtt ccggaaccgt 360
ttcaagaagc agttcccctt caaggggagg ctcggaagg acctgtttgg tggcaagggt 420
ttc 423

<210> 7864

<211> 433

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-033-Q1-E1-E2

<400> 7864

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 gacgattacg gctccagggc gctgggttctt aggggcaggt acacgaagac ttcccaacta 180
 ttatcgacaa ggtcaagttg actccgtag gtaagtggcg acaacagctc gttcagacga 240
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 gctttgtact tctggagaac tttggtaatg atctggatca ttttcccaa aaaatgcacg 360
 tgaaatgcta cttatattct atagatactt acaagtatat aataatcata tatgataaat 420
 cataatatgt gtt 433

<210> 7865
 <211> 425
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-033-Q1-E1-E3
 <400> 7865

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 tggccacgta tttcgaccg gaccgtcagt cgaacgtaga ctacacaaat gtcaagaagg 120
 ttcttgatga tggtctcccc ggctacgcca aatctggagg caccttcacc aggcctattc 180
 gtaagtacgg caagcagtg ttctcccaca atacgacgtt ctgctgcgtc aagcagccgc 240
 ctggcgggtca gaagggtgcc tactacgcca tccatcacat gcgggcgatc gtacgggacc 300
 atcatcaact tctgctaccg agtaaactcc aagattgggc cgcgagcgtg tcggcaatcc 360
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 atcaa 425

<210> 7866
 <211> 270
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-033-Q1-E1-E5
 <400> 7866

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tcattttttt gtgtaataag gaggcacttc cttgcgtgcg aagatgtagc tgggtgggtcc 120
aagctgtcag tggcggtaat gtttttttcg caaaatacag aagccctttc cgtgggtccc 180
agatgtcaag ttgaagaatc attaatattgc gcctaataag gaagcaattc cttgccttcc 240
ggcaatggac caactgtcaa cctccccaag 270

<210> 7867
<211> 413
<212> DNA
<213> Triticum aestivum
<223> Clone ID: LIB104-033-Q1-E1-E7
<400> 7867

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aagccagaat gcccaaacta taggtttcag ggttataggc gattgtcaac agtgatttct 120
ataaatcttg tttgagcatt agatttggtg ctgccttttt tttagccgtg acacatttgc 180
acatcgcatg ttcctatctt acaattggca accaggtgtc taagtggcat ataggaatat 240
atcaggcagc gtgtatgttc agttaaacct tagcccgta ttggaatgat tgatgtcata 300
ttgcacattt tccacaatta aaaaaaaga aacaaaaaat gaaaggagaa gacagaaatt 360
agagaccaa aaatagaata aaaggcaat aaaaaatagc ggccgctcta aag 413

<210> 7868
<211> 401
<212> DNA
<213> Triticum aestivum
<223> Clone ID: LIB104-033-Q1-E1-E8
<400> 7868

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tgaagatgca cttcgtcggc acctccttcc cgccagctcg agcgaggat cgggttgacg 120
ccagccgcgc gccctgctat tcgtcataca acgactacga gtacgcggcg gagggtgaacg 180
ctgtggttcc ggcgacggcg gcggccgtgg aggaggaggt ggtggagggtg tgcgacgaca 240
cggcgagtg cgggtacctg tggtggctgg aggaggagag gtcgtcgggt ggcgtgccgg 300
cgggcgagga cgacggcgcc gaggctagtc cggcggtgaa cgagatcgac aggctggcgg 360

agaagttcat cgcgaggttc cacgcgaagt tcttgctgga g

401

<210> 7869

<211> 411

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-033-Q1-E1-F1

<400> 7869

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cttatatttg gtacagatat ttctggaggt taaactactc taaaaaacgt cttatatattg 120

gtaaggaagg agtatacata aagccactag cccactgcgt ataaatgcac tgttcaagtt 180

caatagatag actatcgcta ctcatcaaac cattctgccc cctctttatc tatagcaaag 240

taactaaacc ataactgatg ataatggcaa ttctgaagtt gacagacaca cataaatgtg 300

tggttatgct tgtataagaa aaccgagtca tccggttaac aagagaaaaa ctgaattaaa 360

gaccacacga caacagattg gctaactagc ataaggagca tcctctgtcg c 411

<210> 7870

<211> 64

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-033-Q1-E1-F10

<400> 7870

gagtcgtatt atgtttggtt ggtttgataa atatgttctg ctttctaaat tggatataaa 60

catt 64

<210> 7871

<211> 427

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-033-Q1-E1-F12

<400> 7871

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tccctcttcg caagaactgc atcctgacat gaagttactt ctttggttaga tcaatactga 120

gagcaaccta gatccattta gtagaagcca gataaacaag actcgaagaa gtgaattcaa 180
aaggagaaat ataaaaacag gctccaaggt gagaacaccc acttcctaca tcaagctaaa 240
aacgaaagca ttaggatgat taagactctt cttattacac atcgaagaac atgaggctaa 300
gagaaacaaa aactacaaca tatacacatc gaagaacacg aggttaaattg aaagtaattg 360
aaaggggtgtt acttaccaaa gctcgtttta cagggttcggt gcagctcctc tccaacttgc 420
cactttc 427

<210> 7872
<211> 416
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-033-Q1-E1-F5

<400> 7872

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gagcgagcac aagctgatgc aaactgcaga cctgttcgtc gatatacaagt gtaaaactct 120
caacacggat cacaccattg cggcgaacaa catcctgagc gcgatgcact agcaatctgt 180
cacgcctgag gatcaaagga tcttgtgatt aagtagaagt aggttaactca cacgcattgt 240
cgagtcgatg gatcttctac aattggcttg gactttgtct ttgttatgcc gccccatatg 300
cttcctagcc atacgtacac tttcgtacgg ttgttcaatt gttttcttcc ggttggttacg 360
gagtccaaac tagctttcgg catcaacaat gtctgactga cgtgccttac ggtaaa 416

<210> 7873
<211> 357
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-033-Q1-E1-F7

<400> 7873

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taataaggcg gtgtattacc gccatgcccc gttgagctag ctgatgttgt ttcggctaga 120
gaaaatcggt acgcccgtc ataattcctt tttcgtatgct ctggagaata ataactactg 180
gtatatcatt ctatatatca aggccggctt gtgaaataaa tgatcctgcg ccccggtttt 240

tgtgtcgtcg aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa atagaaagga aaaaagaaaa 300
 aaaccaaaaa aaaaaaaaaa aggaacggta aaaagaaata attatgcttc aagcaga 357

<210> 7874
 <211> 415
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-033-Q1-E1-F8

<400> 7874

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 cccaaattca aatatttatg atttaaatca aaaaccttag gatggcctag gaaaatgtgc 120
 accacttttg gcagagggtc tgaaccaagg caaaaatgat gggcatttta gaagggcatt 180
 tcaggttcat tgaaaaatta ttttagtaac cctagttggt ttcagagggg actggggggtt 240
 ctgtcatccc catttcaagt ttctgatgaa agagtaaaca tgatgcaaca ctctaattgca 300
 tgactagcta ggggtgtgaca tcagcggaac ccagggccgc ccggatagat gcacggcctt 360
 ggagccaccc tgagatcagc ccagggcgcc ccaacgctgc gcgaaagtcc aggcc 415

<210> 7875
 <211> 423
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-033-Q1-E1-F9

<400> 7875

cgggtaaaaa caacgatggt agtgaagtgt ttgattgggt tgagaaatat gttctgcgtt 60
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 atgcaagaga taaacatatc accttattga tgaatgctgg tctcctgaca cgccaactaa 180
 tagatccaaa catgtactgg ttttctattc caagtattgg tcctatcttg aaaggcctat 240
 ccagggggag gaaggaagtt ctttcattac tggggccgtc gaagtacaag gagatgctac 300
 tatcttcact ggagaagacg aggttgaggt tatcacctct cgacgtgcgg ttccacctcc 360
 gcgatctgat tgggtctggt cacgtaaaaga ccgttcaaac acccaccggc ttacttgctc 420
 gca 423

<210> 7876
 <211> 438
 <212> DNA
 <213> Triticum aestivum
 <223> unsure at all n locations
 <223> Clone ID: LIB104-033-Q1-E1-G1
 <400> 7876

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 ctggtgatga tgaaaagttg cgagaacttt ttgctgagtt cggaactatt acttcctgca 180
 aggttatgcg tgattcaaatt ggcgcaagca gaggttctgg atttggtgct tttaaatccg 240
 ctgatgatgc ttcccgagct cttgctgaaa tgaacaacaa gatgggtggc aataaaccac 300
 tttatgttgc actcgcacag cgcaaggaag acaggaaagc taggctgcag gcacagtttt 360
 cacaaatgcg tcncgttcca atgggtccaa ccgttggtcc tcgtatgcaa atgttacctc 420
 ctggtgtttc agtcggtc 438

<210> 7877
 <211> 281
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-033-Q1-E1-G11
 <400> 7877

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 gtggtgttcg tccgacgaag gcttcaggtg agcgcgcaa ggaggtgaga tgccaggatg 180
 ccgtgtgagg cggcgagcac ggcgagatgc cgatggtgct gccttagaag cggcaagacg 240
 tatcagaagc tggaaccgtt atggactgca tcaaattggg t 281

<210> 7878
 <211> 421
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-033-Q1-E1-G3

<400> 7878

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atgcccgccc acttgatgta cgacgggcag gacgacaacc tgtttgagca cttcagcgcg 120
gtgggtcaac ggctgggcgt ctacaccgcc atggactacg ccgacatcct cgacttcctg 180
gtccagaggt ggaacgtggc caacctcact gggctgtccg gggaagggag gcgggctcag 240
gatttcctct gctcactggg accaaggttc aggaagctgg aggagcgagc tcagggcagg 300
gcgaagcagt taccggttgt tcctttcagc tggatccatg gccggcaagt gcaactttga 360
gtggcattgc taaacaatta taagacaatt tgttcttctt attttcaaaa tatgaagcaa 420
c 421

<210> 7879

<211> 395

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-033-Q1-E1-G4

<400> 7879

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gggatcccggt acctgtcggc cctgaggatc tggctgggct tctccaccat cttcagcctc 120
acctacatct ttgcagcctg cgtgctgtcg ctcaaggacg gcttccgctc gccgcctcgg 180
gactacagca tccaaggaga accgtcgagc aggggtgttca ccaccatcgg cgcggcggcg 240
agcctgggtgt tcgcctacaa caccggcatg ctgccggaga ttcaggccac cgtgcaggcg 300
cccgtgggtga agaacattga gaaggcgctg tggttccagt tcaccgccgg ctccgtgccc 360
ctttacgcca ttatagtcac cggtactgg gccta 395

<210> 7880

<211> 454

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-033-Q1-E1-G5

<400> 7880

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aaagttgcat ggaaatatat ctcggaatgg ctatggaaat gccatgatag gtaggtatgg 120
 tggctgtttt gaggaaggta tatggtgggt gtatgatacg ggcgaaaggt gcgcggtatt 180
 agagaggcta gcaatggtgg aaggatggca aaaagtgcata ataatccatt gactcaacgt 240
 tagtcataaa gaactcatat acttattgca aaaatctaga agttatcaaa gcaaagtatt 300
 acgcgcatgc tcctaggggg atagattgggt aggaaaatac catcgctcgt ccccgaccgc 360
 cactcattag gaagacaata aatacataaa ttatgctccg acttcatcac ataacggttc 420
 atcatacgtg catgctatgg gaatcacaaa cttt 454

<210> 7881
 <211> 440
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-033-Q1-E1-G6
 <400> 7881

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 aaattttccg tgaatttcgg catgacttgt gctagaaagt tggacatatc gaggctcga 120
 ttgtcgcgac gggaatgaaa caacatttcc gaaacaaagg tcactttttt taattattca 180
 ctttattata aaaagctcga taattaaacg actacgacat tgaaccctag gaaacatgac 240
 cgacaccgat gaggcgggag gttctcagtc ccaattaggt cgagcacacg cctacctcga 300
 ctttctggcg gatcaggaga gacagcaagc tgggactgag actggcgctg atgacgacgg 360
 tgggtggcgcc ggcgccgaca ctgatgccac caacgacacc gacactaaga ctggcgctga 420
 tgatgttgct aactacagca 440

<210> 7882
 <211> 313
 <212> DNA
 <213> Triticum aestivum
 <223> unsure at all n locations
 <223> Clone ID: LIB104-033-Q1-E1-G8
 <400> 7882

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ccagtagctg acacgtggca cctatgccga tcggcatngt ggctcgtggga ggatcgggatg 120
 ggttggtaca agtatttgta ggaagacgtc gtgtagcgtg gaggcgggcg attaaactgca 180
 ctttctgatg atgcgcttcg atggatgatg tcacagattg tgtatatagg cgcccaggct 240
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 ctcgatggag tct 313

<210> 7883
 <211> 429
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-033-Q1-E1-G9

<400> 7883

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 ggggaaaaag agggagagaa gcaaccgtga gtactcatcc aaagtactcg caagcaagga 120
 gctacactac atatgcatgg gtatatgagt aaagaggcat atcagtggac tgaactgcag 180
 aatgccggaa taagaggggg atagctagtc ctgtcgaaga ctaagcttct ggacatctcc 240
 atcttgacgc atgtagaaga gagtaggttg aagtcctcca agtggcatcg catagcataa 300
 tcctacccgg cggtccctc ctcgtcaccg cgtagagag cgatcaccgg gttgtatctg 360
 gcacttgga ggggtgtattt tattcagtat ccagttctag ttgtcataag ctcaatgtac 420
 aactccggg 429

<210> 7884
 <211> 192
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-033-Q1-E1-H1

<400> 7884

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 aagttcgatt ttaggcttt tattattatt atagtatgta gagatgagat ttttatgttt 120
 tcatgtatat ttgttttgg atggggaggt aagatttgta gtgagtaatg tgatattgag 180
 gattggtttt ag 192

<210> 7885
 <211> 289
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-033-Q1-E1-H11
 <400> 7885
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 tcctgtcaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 120
 aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 180
 aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa ataaaaaaaa 240
 aaaataaaaa aaaaaaataa acacatcaaa aaatcaaaaa gattacatt 289

<210> 7886
 <211> 396
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-033-Q1-E1-H12
 <400> 7886
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 cagcggcgac ggcaagaagg acggcgacca caaggagaag aaggacaaga agaagaagaa 120
 ggacaagaag cacggcgagg gccacaagga cgacgacggc cacggcagca gcagcagcga 180
 cagcgacagc gactgagcca gctccggccc gcgctccggc agcgtgcagt gtaggcgaga 240
 tcgatgatga aacttggga gaagtgtgac agacatatat gttgcagggt ttggagcgtg 300
 tggtagcata tgtatgtaat gcgtgacatg cctcatggat cttgtgatgt ataataatta 360
 gccggccgca ctgcactgaa cggtgcttgt tataat 396

<210> 7887
 <211> 418
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-033-Q1-E1-H2
 <400> 7887

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 tgctggtag agatagtcct tggttgatt atagaatgct ctttgcactt cacttatatc 120
 ttttgagtat ggctttatag aatgcttcat gtacttcaact tatatcattt gaagtttga 180
 ttgcctgttt ctctttacat agacaaccac cattttctaga atgctctttt gcttcgctta 240
 tatttgtag agcacgggca tatcttttgt agaaagaatt aaactctctt gcttcactta 300
 tatctatttg gagagatgac aggaattggt cattcacatg gttagtcata aaatcctaca 360
 taaaacttgt agattactga atatgatatg tttgattcct tgcaatagtt ttgcgata 418

<210> 7888

<211> 422

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-033-Q1-E1-H3

<400> 7888

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 tagggggtcg tctcgtatgt agaggatcat gagcttcctc tactcaactt tagtttccac 180
 tccttctaag attttagcaa tatcatctat tatattagta ctactactca gaagttttcg 240
 gactggttcg tgtttacagt ttagtcaata ttgtgtgcat taacgctttc ttggatatgc 300
 attttgattt gactggatta ccttaattta tcatgtgtgc taactctaaa gtctaaacta 360
 tgaccatacg gttgccacat acctacgaag acatgaaatc ttcattcttg gtaaaataca 420
 at 422

<210> 7889

<211> 409

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-033-Q1-E1-H4

<400> 7889

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tcagcaaaga atgagtatgc atcaaaagca gatgtccatg agcccgagat actagttgac 180
cacagtgtct acctgccacc ttctccgagc catggcgatg agcacggcca gatttgccat 240
ggagggtgttg tgctggcttc tcgagatgga aagatttgtt ttgagaatac agttgatgca 300
aggcttgaag ttgttttccg caagaaattg ccagagatcc ggaagcttct tgttgcgga 360
taatgcccac ttgtattttg gtgatggtac agctgtttct atgtaaaat 409

<210> 7890
<211> 452
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-033-Q1-E1-H5

<400> 7890

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tttttcgtaa ttaagcactt caactatttt aacgtgtatt ttcatcttt tccaattcga 180
ctagcttatc ccattgctatg caagacgcca tgtcttggag aggatgggtt ttgaagacca 240
tgaaagtatg gaaacaaaaa aattctccta aggacccatc atggtgtgga ttttcaagta 300
aagttgtaca atgctgagag tgtaacccat tttggttgca aaaattcgga agcactttgc 360
aagatgtatg gttttgatga gggatgctt gtcacatgg atcttggtga tcatacaatc 420
cagcaagaca atatgggcat ttgggtcctt gt 452

<210> 7891
<211> 400
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-033-Q1-E1-H6

<400> 7891

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ggaggacagc caaggatatgt agtatcctgt gtgaatattt aggaaagatg catggttcgt 120
gctgacgaaa gtgtcatgaa ctgtattagg ggccacaacc gaggtggcag cccttaagaa 180
ggcgttagcc aaggccgagg acaaagcggc caaggaacgc gcctcgcgcg agaagcggga 240

ggccccgggtc agcgagggtcc agcaagagct ccaggacgtc gtcgagaagt acgagtcctt 300
 ggagcgtgat tctaagactc aagagcccca acttgccaag gcccgccaga gcacacgaga 360
 tgcecgagaa aaagctcaga gcgccctcca agaaatccag 400

<210> 7892
 <211> 355
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-033-Q1-E1-H8

<400> 7892

cgggttcaac taaggcattg ataccacgc aactttgcaa gagaaacgcg catttgacat 60
 caaccgggcg cactaaggcg gatcgatgat cacctgtggg cttcagcggg ggcgcaaac 120
 gatgcagtct gaggtactcc tgtagccgaa gtgatgtctc ttctacagtg tcaacttagg 180
 ttcacttcac tggccttcga ttaacaatca tcctgtaagg gaaagctcta gcggtaaaca 240
 tggtatccgc cgtctctcaa atcgccctat ctccaaccgg gttaacaccg aaaacgcccg 300
 taacgatcgc acgtcttatt atttgcacac cgtgatgcga ggcttggact ctcca 355

<210> 7893
 <211> 350
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-033-Q1-E1-H9

<400> 7893

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 cgaggagttc gtcaagggtga tgatggccaa gtgatccagc cgatgttcat gtcgggtggt 120
 attattattt ttaccgggga ggaggaaatt gtgcattgca tattagtagt aaggaatgcg 180
 gctctcgttt ccttgtctct gcccgaacc agaagaagcg tactagtaga cgtagttgct 240
 gaagagcact catggaatcc tctcccctg ctgctaccct gtctctctcc cgtgtgtcat 300
 tgaaacatct ttctttctgt gtgaatctgc aagacttggc cccttcgtga 350

<210> 7894
 <211> 405
 <212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-034-Q1-E1-A11

<400> 7894

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aatgttagag ctaatcttga tatttgtatt agcatgtttg agttttgcat gtagtctagt 120
ctagtgtggt gttcgtccga cgaaggtttc aggtgagcgc gccaaaggagg tgagatgcca 180
ggatgccgtg tgaggcggcg agcacggcga gatgccgatg gtgctgctg agaagcggca 240
agacgtatca gaggctggag ccgtgatgga ctgcatcaaa ttgggtcggg tgaaccggcc 300
ggtcgttctg tttgttgga tagctgttca tgcgtgagtt cgtttagtcc tagctgagag 360
tatcgttgct agtagttgat gcatgcatgt agttggcctg gtcac 405

<210> 7895

<211> 411

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-034-Q1-E1-A2

<400> 7895

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ccgatttcca ctgctctaaa taggggtagg ttactaactt caattagacg tgacacgacc 120
gcctctgagc ccattccgac actatgggcg tcaaacatgg gcggaaaaac acatttgatt 180
caagctcgtc tgaaagacct atgtttctcc ctccagtccc cattcataca cgggtggcg 240
cataacacac tcgactcggc agaaattgat gtacgcaa attttcaata ggggcagggt 300
tgtaacttca ctcacacgtg atacaagcgc cctacctgtc agcctcgttc atacactgtg 360
ggcgccaaac accctctcct cgcccgaat ccctctgggc aaatattggc g 411

<210> 7896

<211> 419

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-034-Q1-E1-A3

<400> 7896

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ctagcttctt gtaagagcct gacatggaca tatgaggcat ccatacctgg tttgaatgac 120
ctccgacacc gtttacatgt tacgacacgt ccgaccattt atcacctatt ttcacgaga 180
aaactctaga aatgcaaaaa aaattaaaaa atctaaacaa ctctgcattt ccttaccaag 240
aaaactctag aaaaatacga aacttggtga aaacaaaaac aatttgatcat ggtgccttga 300
attgttcata cgaggccatg aaaaaatta ggaaattttc aaggatgtca aaaactgacg 360
tgctctctaa cacacccttt ctggccaacc tgaacacctt ccgttgaaca tgatgtttt 419

<210> 7897

<211> 430

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-034-Q1-E1-A5

<400> 7897

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ttgccctagt ttctccggac aacccttccc caaaaatat gttttatttt atgtgttatc 180
tagaatagca tctaccagta ttctcatctc cggttggttg agtaaccgtt gggcctagga 240
ataaaaggcc cattggcctg ttccgggttg gccatcccat atgactccac atcatgagaa 300
aatcactagt taagaggat cccttgcaaa agttactctc aaactccact cagacaaca 360
agtttgtcaa aacttatcga catggtgttg ataggttttg atgaacttta atttttgaag 420
aaactttaat 430

<210> 7898

<211> 415

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-034-Q1-E1-B1

<400> 7898

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cgacctcacc gcctacaaga agaactggat cgaggtgatg cgcgtaggaca acttcgccat 180
 caacggccac ggcattcatg acggccaggg cccctcgtg tgggagaaga accagtgcag 240
 caagcactac gactgcaaga tcttcccaa cagcctgggtg ctggactacg tgaacaacgc 300
 gacgatccgt ggcattcacg tcaagaacgc aaagttcttc cacctcaacc tcttcaactg 360
 caagtcggtg ctggtggaga acgtggagat caccgcgttg gggaacaacc ccaac 415

<210> 7899
 <211> 457
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-034-Q1-E1-B10

<400> 7899

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 ttttcaatgg tctcgaagag agaaatttcc catttttatac tatggagtca caaccgaggt 180
 cgtggtaaat ccatgaattt gattcgattt gtttttctta tactatttgt ttttcttata 240
 ctatagaaat agaaataaat tttatttctt tcttatacta tagaaagaaa taaacctttg 300
 aattcagcat tattccaaga ctctatttc aaagtctatc ttttaaggga aaaatgaaaa 360
 taaaagtaac ccttcttttc ccattccctc tctattgcat ggggtggaaga actaaaatag 420
 aggattctga aaaaaaagga ccttcgaaat ccaattt 457

<210> 7900
 <211> 394
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-034-Q1-E1-B11

<400> 7900

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 ttgccgaagg aaacaataaa agttgcttct tcccaccagc cagacaggca gctgcagccc 180
 gttctgcaca aaccgaaggc gcctgtagtc tctccctca tcaaacagca gcagtcaagc 240

accttggcga aagaagagcc ttgttcctct ggcaggaaga ctgaaaaaaa taccagaggt 300
 taagcagtca aagtctgac gtaagaagag ccgcaaggct gagaaggaag agaagaaaga 360
 gaggaaattc cgagatcttt ttgttacctg gaat 394

<210> 7901
 <211> 403
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-034-Q1-E1-B3
 <400> 7901

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 gaagtccagg gactgggagt ggaagtggag ctgcaacgag tgcaaggcgg accccaccgc 180
 gccggcagga ctcgtcgcca agaacaagga gttcgacaag atcatggata tcatacctgc 240
 catcatcaag caagcagtcg ccggcgcgga caattccacc aaatcggaca ccaaattcaa 300
 atccaaatcc tagggagcca actcttcggt atgtctactt tcaaccttcg ccgttgatgc 360
 atttctattg cgccatcccg tctgaccac accagcaggg tgt 403

<210> 7902
 <211> 382
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-034-Q1-E1-B4
 <400> 7902

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 acctactcaa gttgctagcc atgctcagaa gtatttcatt cgccaaacaa atgttaatag 180
 gagaaagaga agatcaagcc tcttcgatat ggttattgag gatcctagtg accagccact 240
 ctcccgttca tcgtcacaag agatgccgct ctcccgttca tcttcacaag atgtagaaga 300
 gttcgtagat gatctacgac ctgttactgc tctgtgaca ccaccgctc ctatgcccggt 360
 gataacatct gtttctgtcc ca 382

<210> 7903
 <211> 271
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: LIB104-034-Q1-E1-B8

 <400> 7903

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 taattccttt ttcgacgctc tggagaataa taactactgg tatatcattc tatatcaaag 180
 ccggcttgtg aaataaatga tccgccgtct tgccttcaaa aaaaaaaaaa aaaaaaaaaa 240
 aaaaaaaaaa aaaaaaaaaa aaatacataa g 271

<210> 7904
 <211> 333
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: LIB104-034-Q1-E1-C1

 <400> 7904

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 tgttaaaaaa aaaaagaaaa aacaaagaga aaaagaaacc acaccgccta aaaaagcaaa 120
 atagatcaaa gagacgtcac atagacaaca tcaccatcaa cggaaacaga aataaacaac 180
 ggacattgca ccctcattat aggataacaa ccacgtgcaa caaacactac gactccaaca 240
 taatccccaa caaactaaat gccggagtac gctaacaaac ctaacattca tggcaacacc 300
 ctcaataacg caaaattcta ccacctaac etc 333

<210> 7905
 <211> 339
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: LIB104-034-Q1-E1-C11

 <400> 7905

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cagatggccc ttgtacaatc atcagaagca gagaattccg cgtggtggag cgcgtcgtgc 120
gcgaggaatc cggggcatcc atgatgcaca cccgcaccaa attaccaaaa gtgggcgctt 180
gtcatgcaag tcaagcggca agtcgctcgt gtctagaaaa cggatgatcaa agatggcgcc 240
gaccagaacg actaccggcg cgcactgcag cttattctca ccggcactcg caagaaattc 300
aaataaatgt gttgaagatc atcaaaggaa ggaaaaaga 339

<210> 7906
<211> 442
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-034-Q1-E1-C12

<400> 7906

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cggagtcgga gtggagatag atatggacgt gacaggtaca gagagaggga tcatcatcgt 120
cgtagcagga gtcgtagcac tagccctgat gattacaaga ggcgtggcag agacagaagt 180
cctagtcgta gcaggagccg cagctacagc cctgatgatg acaggaaggg tggcagagac 240
agtttgtcgc ctgcacgcag aagcactagt cgctcccctc gcaagacacc acctcctcgc 300
gaggggtctc ctgctaagcg caatgatgat cgatctcctg ctaagcgcaa tgatgaccgt 360
tctcctgtta ggcgcaatga tgaccgttct cctgttaggc gcaatgatga ccgttcccct 420
gttaagccca attattaccg gt 442

<210> 7907
<211> 195
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-034-Q1-E1-C2

<400> 7907

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ctcgtgtggg ataacaacca ctgccacaag cactacgact gcaagatctt ccccaacagc 180
ctggtgctgg accac 195

<210> 7908
 <211> 427
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: LIB104-034-Q1-E1-C3

 <400> 7908

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 gtcacaagta gaccgactcc tgccctgcatc tactactgtt actccacttc gagagcactt 120
 ctatgcttgc ctctccagat attaagttca tgacaaacag agtaatgcat gaagtatgat 180
 gacataatgt atacagaata aaaccaagca atatgattaa accatgtcgt tttcccccta 240
 gtagcaacaa tacaaatacg tgccttgta cccctcctgt catagagtga ggacaccgca 300
 agattgaact tattagaaag cacctctccc cctgaagata aatcaatcta gttggccaaa 360
 ccaaacggat ggatcggaga gaaatgcaaa gctataacaa ttacacataa taaagttaaa 420
 aaaagac 427

<210> 7909
 <211> 314
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: LIB104-034-Q1-E1-C4

 <400> 7909

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 gtataaattt gaaattcaga acaccctctc aaacatgata agatctcata aagctcacat 120
 cacgtcacia cggaatggac acgcgcgtaa acgggtcgat cggtcgacct gacctggatt 180
 gccgctgccg ttaacgctgc acacattgtc gatgttccac atgttttact actattttct 240
 ttcgaatcgt ctcacttttt tgtttagcgg tgagatgtgt atattaccgg gtcctgggaa 300
 ggggaggtga attg 314

<210> 7910
 <211> 384
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-034-Q1-E1-C9

<400> 7910

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cgttttaaga tatttggttg tcttgtaatc ggatatatta tgcgctccag aacatctgag 180
atgtactaaa cttgagccta aataactggt tgctgtcaaa aaaaaaaaaa aaaaaaaaaa 240
aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 300
aaaaactaaa aaaaaaaaaa aaaagaaaaa aaaaaaaccc aaaaaaaaaa acaaaaaaca 360
aaaaaaaaaa ggggcgcccc aaaa 384

<210> 7911

<211> 458

<212> DNA

<213> Triticum aestivum

<223> unsure at all n locations

<223> Clone ID: LIB104-034-Q1-E1-D12

<400> 7911

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gcaggaaatc agggaatgca atcacctac agatccagtt cgtttctctgc acctcagtat 120
gcactgcaga gagagaatgt ttttctgag agacctgac aaccggaatg catatactac 180
ataaagactg gagattgtaa atttggtgca gtttgcaa atccatcatcc ccgtgtgcgt 240
tcacagcctc cccagactg tatcttgagc ccaatgggtc ttccattacg cccaggggaa 300
gagctctgca agttctattc tcgctatggc atctgcaagt tcggcgtaaa ctgcaagtgc 360
ggccacccga tggcggtctc gatgggggtc tacgcgtacg gctactccgc ctggcgctcg 420
cccaacgcgc ccatgggccc gcgtctcctg gagtcccc 458

<210> 7912

<211> 435

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-034-Q1-E1-D3

<400> 7912

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 agcgggctgt tgagtattta tattctggta ttcctgagcc gatggagatt cctgcaccac 180
 caccaagtgc ccagccagct gatcctgccc tggcttcaca agcagctcaa cctgcagttg 240
 cctcttccgg tcctaacgct agccccttgg acctcttccc tcaagccctg ccaaattgctt 300
 cagcaaatgc tgctggtgaa ggaaatctgg atgttttgcg taacaatgca caattccgaa 360
 gcttactttc tttagtgcag gccaacctc aaatcttaca gccattgctt caagagctgg 420
 gaaagcaaaa ccctc 435

<210> 7913
 <211> 374
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-034-Q1-E1-D4
 <400> 7913

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 gtctatttac catgtatgat gctattttcc aaagggtttt gatgctgcat gtgaaagttg 180
 gtgctgttgt gtaatggcgt aattgagtgc cgaagctagc tgatgtaatt caattatgaa 240
 atcctggttg cttgtatatg gatatgaaat atctggcatg ttttataaga aatatcagtt 300
 tgattagtag atggattatc aataataggc taattaccct gcatagtggg gttttctatt 360
 gcacgcggtt actt 374

<210> 7914
 <211> 443
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-034-Q1-E1-D7
 <400> 7914

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gtaagtaaag aatatgtaaa attattatcg catagatagt aacccatgat gctctgttcg 180
 gcgttcagaa agaaaagccg aatagaggat ctaataatcg cgggagtcta acataatcaa 240
 gtcaatatgt gtacgcaggc ttcgctgctg gcctctgctg cactgactgc ggaggtggat 300
 acgctgtagc agaaccttaa gcggtccgag caagagctcg tcctagccaa gcagcagctc 360
 gaggagaagg atggtaagaa ataccttatt gaaatatgtg aaaggtgcaa ttgcaaaaag 420
 tgacaggatt aacgcgggta ttg 443

<210> 7915
 <211> 421
 <212> DNA
 <213> Triticum aestivum
 <223> unsure at all n locations
 <223> Clone ID: LIB104-034-Q1-E1-E11
 <400> 7915

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 cgacaccttg tggttcgagg accgtgttta tgtgccaaac aatgcagaga tcaggaagtt 180
 gatacttcag gaagcccatg agtcgccata ctcggtacac ctcggaaca ccaagatgta 240
 tttggatttg aaggatcggt tctagtggac tggaatgaag aaggatattg ccgagtatgt 300
 agccgtatgt gatgcatgtc agagagtga ggcagaacat cagaagcctg caggattact 360
 gcagcctatg cccatacccg aatggaagtg ggataagctt ggcatgggtt ttatcaccgg 420
 a 421

<210> 7916
 <211> 405
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-034-Q1-E1-E3
 <400> 7916

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aagtgaaccc gacgcactac cgggagccaa ggttttacac caaggtgttt aaggaatgcc 180
 actcctatga ccaagatggg aattcctttg agctttctct ggtaacttcc aagtgcattg 240
 gagcttatgt gaagagcaag aagaaccaga accagatatg ttggctatgg gagaagggtca 300
 agtgcacaga agacaaaggc tttcagagat tcttggacaa tgtgcagtac aaatccactg 360
 gaatcctgcg ttatgagcgc gtgtttgggg agggttatgt cagca 405

<210> 7917
 <211> 378
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-034-Q1-E1-E4

<400> 7917

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 acacgccccaa ggccaaggag attgtggaga aggcgtgcgt ggggaagagg agctgtgtgc 180
 tggccgtgtc gcacgaggtg tacggcgggg acctcaactg cccgggcacc acggccacgc 240
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<210> 7918
 <211> 439
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-034-Q1-E1-F1

<400> 7918

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 gtcatgccct cgtcaaggag gaggaggact ctgactaagc gtggggcgatg ccggagccgg 180
 gcttaaggaa cagcggccct cgggaggccc ctcccgttgt ttgttttttg tttcctgcat 240
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cagtgtttcc cgcccatatt ctaggattta cattgttact aattgaaagg ttcctgcctg 360
 gcgcgattag gataacttag cttggtgcgc ctgtgaccct tggcgggtcc ctgcgtcaag 420
 ggggcgcgct cctccggaa 439

<210> 7919
 <211> 388
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-034-Q1-E1-F11
 <400> 7919

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 atgattacta ttatcttaat cttagtgcac gtgtatgtaa tatgcaccat gaattggtag 180
 tgcagcgcag tgcagcacag cacatctctg aacctgggaa ggtactacta gctttctttt 240
 cactcagaca agtcgggagg gggtttcttg tcagttagtc ggtttctggc ttgtcagtag 300
 ctgtggtgcg tgtcgtgtgg atcgagttag ttgtactacc agaaattcgg aatgacatgg 360
 aaaccatgca tagcatagca aaataaaa 388

<210> 7920
 <211> 401
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-034-Q1-E1-F12
 <400> 7920

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 gagagggcgt ataatccatg gactcaacat tagtcataaa gaactcacat acttattcca 180
 aaaatctatt agtcacgaa acaaagtact acacgcatgc tcctaggggg atagattggt 240
 aggagaagac catcactcgt ccccgaccgc cactcataag gaagacaatc aataaataaa 300
 taaatcatgc tctgacttcg ttacataaca gttcaccata cgtgcatgct acgggaatca 360
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<210> 7921
 <211> 425
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-034-Q1-E1-F2

<400> 7921

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catcccaagg agaaacctcc aggtccatca aatgcagagt gactgatgcg aagtggaagc  180
atgagctata ctttgccctgt ttctgagggt gttcaatctg ctccacactt ggacgacttg  240
agcctcagct ttaccctatg taatgcatgc atttccactt gttccaggca agagcctttg  300
atgaccatgt atttgccctc tatgagtatc tttgtccaac tgtcaacata ctttcaaact  360
gtatgtgggtg caatcttttg ataagagaat gctaaacttt tttccaaaaa aaaaaagtaa  420
ggggg                                           425
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<210> 7922
 <211> 353
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-034-Q1-E1-F4

<400> 7922

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ccctcaaaaa aaaacaatag tgagtgtaca tggatttgaa ccatgggttg gaggactcat  120
gaaccaactc atccaaccaa agattctgca gaaagagagg gagcttaaac cgtctcgcca  180
tatagggtggc attcatttac gttttggaaa catccatcat gtacgattcg ttttttcaaa  240
cctcctccct atatgtatgt tgtggaccac agttgcgggc gtgttgcgcc aagggttgga  300
gctccagcgg aaagaacggg agatggggct actagaggcc gttatccggg aaa           353
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<210> 7923
 <211> 448
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-034-Q1-E1-G10

<400> 7923

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tgagtcgatc ccggaacagg agccatgcaa agatcttcgc gtgatttggga acgcgtgaag 120
accagatggc aatggcatgc atgtcgtcgt cgtcatcgtg ggagcccatg gtttagcgcgt 180
atgctgccct cgtggagatt catcatcacc acccttgatg tctctcccgt ctccaccttt 240
caccttggca ccaacaccca acatcaccca cgcagtaatc catctatagt tctgcacaca 300
aaggccgggg aaaagacagg cacaacagct acgagctcat gcacaggatc atagtctggc 360
atgaatttca cctgattttg ttcacgcgaa tgatgcaaca gtacttggtg gatcgtgggtg 420
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<210> 7924

<211> 419

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-034-Q1-E1-G11

<400> 7924

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aaacatacac tagtagaaca tagggctttc gttcggggcca aataagcccc ttagtcccgg 120
ttcagtcatg aaccgagacc aatgggggca ttgggtccggg ttcgtgaggc taaaggcatt 180
agtcccgggtt caaatgggac ctttagtccc ggtttgagac acgaaccggg actaaagggt 240
gcgatgccct ttagtcccgg ttcatacctc aaatcgggac taaagattag acctttagtc 300
ccgtaggcct gtttgcaa at tctagaatc ctcaaattct aaaaggaaaa aaagttatgc 360
tcaaaatttc atttttatta aaaaaatttg gttaaactctg gtcaaactaa ttattcaag 419

<210> 7925

<211> 436

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-034-Q1-E1-G12

<400> 7925

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 cttctcaatg acttgggaga tgatgaaaag atgaaggaat ctggatttat agttcctcaa 120
 aatgtacctg ctcacagctg gctgaagcgt ggggtagatc ctctccaaa ccgttatggc 180
 ataaaaccag gccgtcattg ggatggagtg gaccgcagca atggatacga gaaggacatg 240
 tacaagctaa agaatgacaa gcaggccacg gagcaggagg cctacctttg gtccgtcgca 300
 gatatgtgag cgccgcagct gtccaagaa catgtccgat ggcatgctga ctggatcagt 360
 tgctgaggtt gcccaatgtg cctgaaagga aaggaagcga tgcccttgaa catcatttct 420
 tcgaacacat gatgac 436

<210> 7926
 <211> 304
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-034-Q1-E1-G4
 <400> 7926

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 taccccccta ggagcatgcg cgtagtgctt tggtttttga tgacttctag atttttgcaa 120
 caagtacatg agttcttttg actaatgttg agtccatgga ttatacgcac ctcaaccttc 180
 caccattgcg agcctctctt gtgccgcaca actttcgctg gtactataca cccagcatat 240
 accttcctca aaacagccac catacctacc tattatggca tttccatagc cattctgaga 300
 tata 304

<210> 7927
 <211> 313
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-034-Q1-E1-H1
 <400> 7927

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 gctgtgctca tctctgctct tcctgacggc accgttgctg tttcaccata gaaggaatac 120
 caccacaagg tggatgagat aaccatatgg cactatcctc tgatcacact cactcttgac 180

actcaagcat tgaacatca gtagtttagc tcacctctga catcactgac ggtatccgcg 240
aattttcctt ggaccctatc gtggaaaatg ctgtatcatc aaaaatgcta tagccaaagt 300
ccaaaaattc atc 313

<210> 7928
<211> 428
<212> DNA
<213> Triticum aestivum
<223> Clone ID: LIB104-034-Q1-E1-H10
<400> 7928

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gtgatgatgg agcgttgatt cccatggagg atgattctga tgacagtgag gatggtgatg 120
attcctctga tgatagcgag gatagctctg atgaggagga agaagaaaca cccaagaagc 180
aagagactgg gaagaagatg gcggttgaa gcgtgttgaa gaccctgtt actgacaaga 240
aggccaagat tgcaacaccg tcaggccaga agacaggtga caagaaggga gctgtccatg 300
tggcgactcc gcacccggcc aagaaggcgg gcaagacccc agcaaccagt gagaagtcgc 360
ccaagtctgg agggctctgc gcgtgcaagt cgtgcagcaa gacattcaac agttagggcg 420
ctctagct 428

<210> 7929
<211> 411
<212> DNA
<213> Triticum aestivum
<223> Clone ID: LIB104-034-Q1-E1-H12
<400> 7929

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aacgaggcca gcgggggccc gtctgtgccc cgcgccgtgc tcatggacct cgagcccggc 120
accatggact cgggtgcgtc cggcccttc ggccagatct tccgccccga caacttcgtc 180
ttcggccagt ccggcgccgg caacaactgg gccaaagggtc actacaccga gggcgccgag 240
ctcatcgact ccgtctctga cgtcgtccgc aaggaggccg agaactgcga ctgcctccag 300
ggattccaag tttgccattc tttgggagga ggcactggat ctgggatggg cacccttctt 360

atttctaaga ttagggagga gtaccctgac cgaatgatgc tgaccttctc t 411

<210> 7930

<211> 291

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-034-Q1-E1-H4

<400> 7930

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attacgacat agtaactaag aataaaccta cactatacaa taaaggattt aaggatatatt 120

gcatccactg ggcacgaag ttcgccactt gtgatcataa agtgcaacga agaagcagat 180

tacaaaaact tggcaccatt gcagcgtaat aaaataatac tgaaccgaga ccacttccaa 240

gatagttcaa gaaaggttag ccttgccggg gaactgctgt gcaagctgct g 291

<210> 7931

<211> 391

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-034-Q1-E1-H8

<400> 7931

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gtgcggagac tgaattctga cagcgtctac gatctgtcgt ccatgaaagc agagctctct 120

gtcaagaaag gagggttgtc caagtactac gacggaaagt cccagtcgtt cgcgtgcatg 180

tccgaggtga ggtgcctgga ggacctgccc aagaagagcc cctacaagaa gatcaagtcg 240

tgcaggagca acatcgatct ggacgggaac cagaaagcct gccccgtacc tggttctcac 300

aacagcaaag gaatggccaa gccctctgga agctcttgcg cgaatctgat ggcccgaat 360

aacagcgcaa acatgctcta caagcctccc g 391

<210> 7932

<211> 458

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-034-Q1-E1-H9

<400> 7932

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attcttagtc tcaagcacac tacacagttc tacagaactc taccttggtg accccgtatg 120
tcgatgaaca caagaacagt ctgcgctcca aacacccgga gcagtgcgac gactggatta 180
catgtgaaca cgtcaggact ttcagcagtt ggttggaac acgtctcaga ggtgacagca 240
ctgtttgtga tgagctgtac ttgttgcca ggggaccatc ttcgactgta atgatttga 300
aaggatacga gataaatggg aatacatattt acatgattga ccaagatgaa aagagcacca 360
acaaaaacag cgggtgtccgc tttgatgcag caacctacaa tggaaatgac acatattatg 420
gttacatagc aaacatatgg gaacttgact aacgggta 458

<210> 7933

<211> 263

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-035-Q1-E1-A12

<400> 7933

tcgacgggga aaaatcaaga aaaataaaaa taataaaaaa aataaaaaaa aaaaaataa 60
aaataaaaag aaaaaaaaaa attaaaaaga aaaaaagaaa ataaacaaac ataaataaaa 120
aaagaaataa catcaaaaaa agcgctgtc ttaaagtttc caaccttctt tacccttcca 180
gacaatttca acctccgcaa aattttcccc acatattcat ttaagggacc ttctttttac 240
aagctcttga tgggaaaacc ctg 263

<210> 7934

<211> 346

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-035-Q1-E1-A2

<400> 7934

acggggttgg gtataataaa aactatcaca gaaagtgaat tggatgctat gatcaatttg 60
atgcttgata attgttttga gatatggagg tagtgatatt aaagtcatgc tagttgggtg 120
attatgaatt tacagaatgc ttctgttgaa ttagcaagtc tcatagcatg cacgtatggt 180

taaagttgtg taacaaattt gaaacatgaa gtgtacctgg cttgagcatc cttatgagtg 240
 gcggtcaggg acgagcgatg gtcttttctt accaatctat ccccttagga gcatgcgtgt 300
 agtacctgat ttttgagtac tttcaaattt ttgcaataag tatatg 346

<210> 7935
 <211> 307
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-035-Q1-E1-A3

<400> 7935

gaaacagaat ggggtgctctg tttctcacat cgagtgtctt gtcgagcaga actactgatc 60
 gtgatcgccc cgagcacggg cggggtatat attgaccatc gagtgtcatg ttgtttcgct 120
 gtgctggggg tttgttgctg gggttttgtc gtcagatttc accagctcgt ttctttctcc 180
 ggttctttgt ttctttcaca cggtaaatgc agctaccact cgattcttgg cgtttggtgt 240
 ttgtaaagaa gatcgtagct tgtaagtaaa atcgtttgca gtgtaaaatg taaaaaggta 300
 gcatggg 307

<210> 7936
 <211> 345
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-035-Q1-E1-A5

<400> 7936

gggccgacgg gttagtgaat gtgccatgta gaaactacag gataacgtat ggtgatagtt 60
 aatttgatgc tgcigaaaaa cagaatcgtt atgcgcacga ttataatttt agtaatttac 120
 agaaacgtgc gtttgcaatg attcgtttct cggtagatga atgtacaaat tatccaggac 180
 atcctagttt ggtaggattt tttaagttcg agacgtttgc gtgacataga gattgctaca 240
 gactgttctg tttttgacag attctatttt tcgtgtgttg tttgcttatt ttgatgcgtc 300
 tatggctagt acgtaagggt aataaacata cagaacttgg aatac 345

<210> 7937
 <211> 441
 <212> DNA

<223> unsure at all n locations
<223> Clone ID: LIB104-035-Q1-E1-B3

<400> 7939

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gtgagtgggg aagatataga tgccaggcgg gatatggtga gatacaatgc cgatgtctaa 120
cgacagcagt gggtcgagcg acacgggctt ctgtccagcg acgccaagaa agaagcggta 180
atgacggggcg ccgaccagtc tacgcgtatt atgggtcttac agtccaattt tgtgtttttc 240
atatcaacat gattgtttta ccgtcaattt tctgaatatt gttagtgact aactatttcc 300
taattttgtt tatttaggtt gaatgttgtt tcattcccca cgcggctgaa tccaactcgg 360
tctttatcct gccttgagtc tctctctcat aactgaagcc acgaggtatt cgatttatcg 420
gatttcgagc tacctgc 437

<210> 7940

<211> 392

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-035-Q1-E1-C1

<400> 7940

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tcagcggcga tgagacggcg cccttcttcg gcttcctcgg cgccgccgcc gcgctcgtct 120
tctcatgcat gggggcggcc tacgggacgg ccaagagcgg ggtcgggggtg gcgtccatgg 180
gggtcatgcy gccagagctc gtcataagt ccatcgtgcc cgtcgtcatg gcgggtgtgc 240
tcggaatcta cggcctcatc atcgccgtca tcatacagcac cgggattaac cccaaggcca 300
agccctactt cctcttcgac ggctacgctc acctctctc cgggctcgcc tgtggcctcg 360
cggggctcgc cgccggcatg gccattggca tt 392

<210> 7941

<211> 365

<212> DNA

<213> Triticum aestivum

<223> unsure at all n locations

<223> Clone ID: LIB104-035-Q1-E1-C2

<400> 7941

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gcatcgatcat aaaaagggaa aggcaaagga taagtcgaag cgtcacacat acaaagaggc 120
aactggcact gatgtggctt cagatatccg agaaaacggc aaggaagagg ctgtgatacg 180
catcgcggaac gacggggaat gccgcaagag caacaaaggg aanggccgcc atgangacaa 240
gaacaacgtg aatgtttcaa tcgtttccgg cagcatagag aacggtgctg gtgacgagca 300
tgccaacaag tcgggctcaa tggcaatgaa cctcgttcg gaagggtcca ccgacaaaact 360
caatg 365

<210> 7942

<211> 245

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-035-Q1-E1-C5

<400> 7942

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ctacggtaac tggaaccggt tcatcatatg caaactctac gacaacaccg caaccaagac 120
ctacggtcag ttcatcatac cggcgtctt ctggatccat gctaagtctt cttacggttc 180
agctcagatc acttcgaggt tgcttcctac agtctatcag cgggccttat attccactct 240
tttaa 245

<210> 7943

<211> 201

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-035-Q1-E1-D6

<400> 7943

cccggtgga caagggtag ataaaggtag tgtatcatac ttgaaagatg aactgtacgt 60
ggcttgatgca tcggtacaat tggcggtcgg cgacgagcta cggcatttca ttaacagtcc 120
atgcctgat gagcatgccc gtcatacttg acttgggatg aattccagtg ttttgcata 180
agtatagcat ttctctgggg g 201

<210> 7944
 <211> 444
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-035-Q1-E1-D7

<400> 7944

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 aatagggtgaa ctctcatgct tcaattatat tattttgaga gtcttaaaca gcatggtaat 120
 ttgctttgggt tatgaattta gtcctaatat gataggcatc caagagggat ataataaaaa 180
 ctttcatata agtgcattga atactatgag aagtttgatg cttgatgatt gttttgagat 240
 atgaagatgg tgatattaga gtcattgctt ttgagtaatt ttgaatttga gaaataacttg 300
 tggtgaggtt tgcattgtcc gtagcatgca cgtaaggtaa ccgttgtgtg acaaatttga 360
 agcatgaggt gttctttgat tgccttcctt atgagtggca gttggggact agcgtggtc 420
 ttttcctacc aatctattcc ccta 444

<210> 7945
 <211> 424
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-035-Q1-E1-E3

<400> 7945

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 acgacctaga tttagtttta ggctgccttg ggacgtctc ccacatcctt ggccgccacc 120
 ccttcctcct atataagtag atccatctag tagcttttcc ttgggatttg tttagttaaa 180
 agttagccat tgcaacttcg tgtacttcgt ttgtgtccaa cgaccagacc aagaccgctt 240
 ccggatcccc accattatca atacttcata tatattcgca atactcagat tgctttatca 300
 tattcttgct cgttcttcga ttgcttgagc gaatagacct tcgtgggtcag gttgatcgtg 360
 ctccagcgtg gtcaataacc tctcggagtt ggtttagcga ttgcaaaggc gcaacgtcgt 420
 gcac 444

<210> 7946
 <211> 448
 <212> DNA
 <213> Triticum aestivum

<223> unsure at all n locations
 <223> Clone ID: LIB104-035-Q1-E1-E4

<400> 7946

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 aacaacaaaa ataaagaggg gaacccaaaa ctttttcaaa aagaaaagcc aaagtgagaa 180
 agacaagcaa tgtgtaaaat ggagagaccc ctgaaactgt gtacaggcac acaacaactt 240
 tgagaaccga gataacagaa acttttcaac aaaaataatt acccccggtg acaattccat 300
 tgtattataa aaataatgtg ccagggtttg ctttttaggat gtttacattt gcttgatggt 360
 ttgtacggtg caagacagaa actttggctg tantgcgcga ttttacattt ttagctggaa 420
 cgtcaaattg ttctgattct ttttgcac 448

<210> 7947
 <211> 379
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-035-Q1-E1-F7

<400> 7947

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 gagcatcggc ctgtctagca gcagacaggt aaaggagggg gaaacatgtt ttggcaaggc 120
 agcttccaac gccagatttt gcgagggggg gacgatagtt ggtcgttgga tgtgttgccc 180
 ccggttttgc ctgattctgt atcccgttgc gagaaatact gtaacaaatc cgtcagtggt 240
 gtacctagtt aaattatctt caagtgacag tagaaatggt tcgtggagag ctttggtaat 300
 aatggcgct tctgtgcttg gaaaagtgac ctattccaac aagacacgaa ccggatgctc 360
 aataggatat aggcacaca 379

<210> 7948
 <211> 281
 <212> DNA

<213> *Triticum aestivum*

<223> Clone ID: LIB104-035-Q1-E1-G1

<400> 7948

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tgctttgggtt tttgatgact tctagatttt tgcaacaaat atatgagttc ttttgactaa 120
tgttgagtcc atggattata cgcacctgac ccttccacca ttgcaaccct ctcttgtgcc 180
gcagaacttt cgccggatag tagaacccca ccatatatct tctcaatac atgccaccat 240
acctacctag tactgcattt tccatagcca ttctgagata t 281

<210> 7949

<211> 344

<212> DNA

<213> *Triticum aestivum*

<223> Clone ID: LIB104-035-Q1-E1-G11

<400> 7949

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cgaagtagta ttagtactcg atgaggatct agatttagat gacgagtctg acgacgaata 120
cgaagatgat caggacgagg aggacgagga gtaagttcaa taactgtaag actactaacc 180
tgatgaagca tattcagatg tcgaatacta acaccattca tatgcagacg attatgttta 240
tgatgaacat gacttttgca tcaagggctc ttcacgggcc gttattagct gcctctcttt 300
acgatcctag cttaccttcc ctttcttgcg atttcataac tctt 344

<210> 7950

<211> 396

<212> DNA

<213> *Triticum aestivum*

<223> unsure at all n locations

<223> Clone ID: LIB104-035-Q1-E1-G4

<400> 7950

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ggtcttgacg tcggcccgga ttctatcaag aaattcagtg aaactttgga cactaccaag 180

actgtcatct ggaatgggcc gatgggagtt tttgaatttg agaagttcgc agctggcact 240
 gatgcatcg cgaagaagtt ggctgatatc acagcaaaaa ggcgtgacaa ccatcatcgg 300
 cgggtggcgac tctgttgctg ccgtcgagaa ggcanggttg gtgagtaaga tgagccacat 360
 ttcaaccggg ggtggcgcaa gcctggagct gttgga 396

<210> 7951
 <211> 449
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-035-Q1-E1-G5
 <400> 7951

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 gatggagaag atcaaggaca agatcagcgg cgacggccac ggcgacggca agaaggacgg 120
 cgaccacaag gagaagaagg acaagaagaa gaagaaggac aagaagcacg gcgagggcca 180
 caaggacgac gacggccacg gcagcagcag cagcgacagc gacagcgact gagccagctc 240
 cggccgcgct cgggcagcag cgtgcagtgt aggcgagatc gatgaacgct tgggagaagt 300
 gtggcataca tatatgttgc agggtttgga gcgtgtggta gcatatgtat gtaatgcgtg 360
 acatgtctca tggatcttgt gatgtataat aattagccgg ctgcactgca ctgcacggtg 420
 cttgtaataa taacgttaat gaatcatgt 449

<210> 7952
 <211> 442
 <212> DNA
 <213> Triticum aestivum
 <223> unsure at all n locations
 <223> Clone ID: LIB104-035-Q1-E1-H1
 <400> 7952

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 caacttgcat aaaatgctca aaagggccat gcagagccaa aaccactgcc tagcttcaag 120
 aattttgtcg tggaagagga ggaagggatc ggaggttatg ggatcgttta tagggctcgg 180
 agaagcgaag atggaaaagt atttgccata aaatgtcctc gtgagaaagc tcattcacat 240

catgttgaca atgaacgaaa gatgttggaa cgatttggag gcaagagttt tgtgattaga 300
 tacgaaggct gttttaggag tggatgaacta gactgcttta ttctagaaca tgtaagcat 360
 gacagaccag agattctcan nagagaaata atgtctttga gttgcagtgg tatgggtatt 420
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<210> 7953
 <211> 443
 <212> DNA
 <213> Triticum aestivum
 <223> unsure at all n locations
 <223> Clone ID: LIB104-035-Q1-E1-H2
 <400> 7953

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 gtgtcaaaat gtgtgcattg atgcatgtgt tacatgcgat tgtgtgaggg acggacgaat 180
 cgagagagat ggttgtttgtg ttatggatgc tcctctctgt ctctctctct tgcacacaca 240
 caagtacaaa tagaagaccg ttctctcatg tatacacaac gtatcgacat ctctctatgt 300
 ctcaactcatg catgatcatt tgcacattca cacctctcta tgtctctatc acacacacag 360
 tctccacatt gcccttccgc cacaacacac atatggacac atacacacgt tctctctcag 420
 tcacacacac aaaatcagta tta 443

<210> 7954
 <211> 301
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-035-Q1-E1-H3
 <400> 7954

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 ccaaaacaag gttctcccc tctcttatgg aatcaattc gatgtaacc tttttgcggt 120
 gtgtttgtcg agatccgatg aattttgggt taaggatcaa gtttacctat gagaaatatt 180
 tgaatctcct ctgaattott taatgtatga ttgagttaaa tttgcaagtc cttttgaatt 240
 atcagtttgt tttggcctac tatattgatc tttcttgcca tgggaaaagt gcttaccttt 300

<210> 7955
<211> 442
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-035-Q1-E1-H4

<400> 7955

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tcaacgacgc cgtcttcgcc gacagcggcg gcccacaacca gaggaagttc gagaaggatg 180
acctcatccc gcccagccg ggtatgtacg tcaccaggct cacgcgcttc gccggctgct 240
tgccgtgcaa gcccggcaag ccctgctaaa ccttggtggc cccgcgggcc ggccggagcc 300
gatcccttcc gaatcttcaa ttctatagct ttgttcaatt cttttactca aagattcgtg 360
catgtattac taggacattt gagtagtcta cgggggttcag atcagagggc cctgtagggt 420
gtccttgtac gtgcattcgc cg 442

<210> 7956
<211> 445
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-035-Q1-E1-H6

<400> 7956

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acgctgggcc gacacgtgga tctgctagcg aatgagaatt ttacatgtgg aaaatcccca 120
ttggttcggg ctgttaatgg gttatcggat ccaaagtgga acccaatagc ttaacaacga 180
cccgttacga tggatgccac gtgtcggta cccttgacga aagcacttct atgacgcgtg 240
atztatcatc atggaagtgg acacttccgt tatgataatt ttggtaatgt catggaacac 300
ttctacgaca gcacaagtat gactatcttg atcctgtcat aaaatcgtca tggatttaca 360
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tgtagtgcac tgacatggta taggc 445

<210> 7957
 <211> 345
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: LIB104-035-Q1-E1-H8

 <400> 7957

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 tgggtgtttct cacggttcct tttccaacat tatttgtgtg tgcatgtgtg ttttgtaaaa 180
 aaaaaaaaaa aaaaaaaaaa aaaataaaaa aaaaaaaaaa aaaaacaaaa aaaaaaaaaa 240
 aaaaaaaaaa accaaaaaaa aaacaaaaaa agaaaaaaaa aaacgggccc cccaaaaggt 300
 tccaatctaa cttacccttg aatgcaatth aaaaccctc caaaa 345

<210> 7958
 <211> 418
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: LIB104-035-Q1-E1-H9

 <400> 7958

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 aggtgggaca ttccctaccg aaaaccatca tgcttgttgt gagaagctcc ggtttgtgag 180
 aagcgtatac ccaaactgc cccaaatggg acaaaatttg taccacggca tgttgatgcc 240
 gtcocatgat agcatgccaa gtttcttgaa tttcagatga cttttggatt tacttgaatt 300
 taaaaaccag gcattctaat gttttgctgg caatcaacgg tgccctgggtg ttcgaaattc 360
 attcccatth cttgcatggg acctaagcat gcaccaagg acacagattt ggthtttc 418

<210> 7959
 <211> 196
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: LIB104-036-Q1-E1-A12

<400> 7959

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atcaaaccaa ggcttgctcg aaacaacgag tgcttccaac taacaacagc cctgggggag 180
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<210> 7960

<211> 443

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-036-Q1-E1-A2

<400> 7960

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agcaacaaca tgcattctgc cagtttgtga ctgggtgctcc tcggcttcca cctgggtggct 180
tagcctccct aaatcctaag ctgactatcg ttaggaagca ctctcgact gcggcgaata 240
cttcaaatgc agctggagca gcagagtctg cagatgatga tctgcctagt gtcatgactt 300
gtgccaaacta tottaaactt ccgccatact cgacaaagga ggttatgcac aagaagctgc 360
tttatgctat caacgaaggc caagggctcg ttgatctttc atagtgggtt caaaactaac 420
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<210> 7961

<211> 440

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-036-Q1-E1-A3

<400> 7961

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tttctacaa agctctctct ctctctctct ctctctcaac gctaacccta ccctccacac 180
gaacgctctg ccttcaactgg acaagtccgc ctccgttgcc gctagctatt cttctagtgc 240

ccggaccggt gaccatccct tctctgataa tgtggaacag atatgttaga agctccaaaa 300
attgaatgtg ttgcacgagc agcgagcacc acacttgtgc tagtgcagct tgtgggacgg 360
gacagggatc cccgcaagaa taaattactc aataggtagc ggggacacgg acgagaatga 420
gcagcggaca tagatgagtt 440

<210> 7962
<211> 406
<212> DNA
<213> Triticum aestivum
<223> Clone ID: LIB104-036-Q1-E1-A4
<400> 7962

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ggccagacca acctcaggga caagatgatg gaccactgga agatgcacag gaggaatgag 180
aagatgctgg aggaggagca caagctgctg gctctgagga tgcaccagca ggacgacctg 240
agcagcggca tgagggagat ggagctcggg taccatcagg gtagggattt cacttcccag 300
atgccgttca ccttcgggct gcagcccagc caccccaact tgcaggaaga caagtaggcc 360
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<210> 7963
<211> 439
<212> DNA
<213> Triticum aestivum
<223> Clone ID: LIB104-036-Q1-E1-A5
<400> 7963

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tcgagcagta gtttgtctac actccgattg atcgatcgat ccacacgacg cgccatgtgt 180
atatgttacc cgcaccaacg tccctctctc ccaagtggac atagtgtgga gctcagctgt 240
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gcgattgctg ttttttcac cttctctctt tctctctgtt ttagtttcaa tcaactggacg 360

tcaccatgtc tgacactctg accgaaactg tgaattgtca aaagaacgaa atttggcgga 420
ctggtaaaat taatctggg 439

<210> 7964
<211> 378
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-036-Q1-E1-A9

<400> 7964

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ggtatgggtg gtatgggcat gccgcctggg atggaagggt tgggtgggtat ggggatggat 180
gattttgagg atgagagtga cgacgaagga gaagtgtcga aacctcaaga cgcaggggaag 240
tctgatgctg cggaaatctc cgaggtggaa ggcaaagctg gcacagctgc tcagagcaac 300
tgaaggcttt ctactcaata atccctactc gactgtatcc tagcgttttt ttatcaacgt 360
gctaaactga aggacaca 378

<210> 7965
<211> 445
<212> DNA
<213> Triticum aestivum

<223> unsure at all n locations
<223> Clone ID: LIB104-036-Q1-E1-B3

<400> 7965

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taataaatct cagatgacaa cactttctca aaacaatcat gatataatat aacaagatgg 120
tatctcgcta gccctttctg agaccgcaaa atataaatgc agagcacctt taaagatcaa 180
ggactgacta aacgttgtaa ttcatggtaa aagagatcca atcatagtca taccgaatat 240
aaattaatag taatggatgc aatgacagc ggtgctctca agctattgct ttttaataag 300
aaagtgatga ctcgacataa aattaaataa ataggccctt cgcagacgga agcagggatt 360
tgtanaggtg ctagagctca attttaaagc agagataaat aatattttga gcggcatacc 420

ttcattgtca acataacaac ccaag

445

<210> 7966
<211> 418
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-036-Q1-E1-B4

<400> 7966

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gtgttgtgaa gttttcaagt tttgggtaaa gattcgatgg actatggaat aaggagtgga 180
aagagactaa gcttggggat gccaaggca cccaaggta atattcaagt acaacaaaaa 240
gcctaagctt ggggatgcc cgaaggcat cccctcttct gtcttcattc atcggttaact 300
ttacttggag ctatattttt attcaccaca tgatatgtgt tttgcttgga gcgtcattct 360
attttatttt gttttgcttg atgtttaaat aaaataccaa gatctgaaat tattaatat 418

<210> 7967
<211> 409
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-036-Q1-E1-B5

<400> 7967

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gtataggagc cagcagagac tacaatgtag acatgggttc aaagtttatg atggcaaatg 180
gtgctttggt cegtgtactc attcactactg gtgttaccaa gtatttatcc tttaaagctg 240
tggatggaag ctacgttttc aacaaggga agatccacaa agttccctca actgatatgg 300
aagctctcaa gtctccattg atgggattgt ttgagaagcg aagagcaggg aaattcttcc 360
tttatgttca agattacaag gaaaatgacc caagtactca caaggggct 409

<210> 7968
<211> 393
<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-036-Q1-E1-B6

<400> 7968

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ttcccagtga tcttggcaca cttcttcattg cttctgtagc acacggagag gaggatggac  180
ggcgaataag cctgggaaga tggttgggtg ttgtttttgg atggtaactg aattttgctt  240
gggcagtagg gtttatatac aggtctctgc ttctttgggt ttgattgttc ctaaattgat  300
atgtctgtgt tgatgtgtat gcggaaaata ttaatatgtc gatatacaag gtgttggatc  360
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<210> 7969

<211> 423

<212> DNA

<213> Triticum aestivum

<223> unsure at all n locations

<223> Clone ID: LIB104-036-Q1-E1-B9

<400> 7969

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caatattgtt gctatgtact acctcttact aacggataaa ctgttttaaa tagtttcctt  120
caatattgta ctagcacact tccagataaa ctgtactcca acttactaac ggatgagctg  180
cactgaacga cggcctaaag gatggtgagg agaaatgata ccgtacttga gtttcttctc  240
aggagaacca gttttccgtt tacctagtta agatgggtctt ttattcgtct agaattgtca  300
gcactgtgga tgggtcttga tcattacatt atacggcctc attttttaca aaactgcgtt  360
ctgacgaaag ccgcactcaa caaccggggg tctctcttaa tcttangaga acaatancta  420
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<210> 7970

<211> 431

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-036-Q1-E1-C1

<400> 7970

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ttccataagc tggggccagg tgggtacgcg gtggcagtgc ctaagtggga taagtctgac 180
aaagagatgg aggatgcagg tgtcactccg gttagtaaga gctggccctc caggtgcagg 240
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catgtctgaa cggagccgac gatgcgctac ttgttgcaat agaagaggct cgatcggggg 360
tgttccagcc caacagagag aacgacgagc ttacgcgtgc cctgggaaat cctgaacacc 420
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<210> 7971

<211> 426

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-036-Q1-E1-C4

<400> 7971

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aagagaagag gaaagcaact ctcaaagaag ctgtccagta cgtcctgaga cagtggcgca 180
cacagaagag gaagcgctga gccagatat ctaaattcct gtagtgaact agaagtgcgt 240
ttctgttatt ttcctcatga atgttggtaa acgtttagtt gtctaggttt ccttggatta 300
ttcagcctgg tgtagcattg acatgaatgc tagtacttgg agattgtgaa tcgccctttc 360
aggataatct ttttcgtgcc aagctatgtg ctagtatgaa tgaacggcta ctagtttggt 420
gattac 426

<210> 7972

<211> 415

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-036-Q1-E1-C6

<400> 7972

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 ggacctacta aagtggagat ctatgcatct tttggcggcc tcctgatggt gctcaaaggc 180
 gatccttcaa gtgctgctaa cctcgagctg gatcaaaggc tgttcctcct catccgaaag 240
 gtgtaagcgt gtaatctacc ggataaccag tgcttgtagt tcaactcagg ctataccaag 300
 cctgtgattg tttggatgct aatcgtcctg cacccttatg tactcttttg gcggtaatat 360
 gactagattg gtaccattct ctgtagetta ttctgttcc cctggagcgc attat 415

<210> 7973
 <211> 448
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-036-Q1-E1-C8
 <400> 7973

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 cagattccct tcaactatcg acgataatct ctactgtaca attgcacat agaccagac 180
 tacacgaaaa atcctagtcc tgcctgaagt gggagtgaag aacggatgca gttgggcaca 240
 caaaatatga gttattcttt tttctttta gtcttttct gcattgtcat ctttcttttg 300
 ttttcttttt tgcgggaaac tttttttca tattcatcat tttcattttt ttcttttaa 360
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<210> 7974
 <211> 373
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-036-Q1-E1-C9
 <400> 7974

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gatccctgat accaagcaga tggacaaggc cgccttgcta gccaggggtgg tggaccaagt 180
gaagcacctg aagaggagag catgcgaggc cgcacagcaa acgcgggtg tcccaccgga 240
gaccgactag gtctccattg aattctgcgc eggagacaat gactccagac tgtacatgaa 300
agcctcggtc agctgcgacg accgcccgga cctcgtcgcc ggggtcatcc aggcgtcca 360
tggcctcagg ctg 373

<210> 7975
<211> 438
<212> DNA
<213> Triticum aestivum
<223> Clone ID: LIB104-036-Q1-E1-D1
<400> 7975

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tagtgcttca cttataactt ttagagcacg gtcgtagttt tattttgaag aaatagatga 180
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tgagaagttt gatacttgat gaatgttttg agatatgagg atggtaatat tagagtcatg 360
ctagttgagt agttatgaat ttaaagaata cttaaagttt gtgattcccg tagcatgcac 420
gtatggtgaa ccgttatg 438

<210> 7976
<211> 434
<212> DNA
<213> Triticum aestivum
<223> Clone ID: LIB104-036-Q1-E1-D11
<400> 7976

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caatccagtc atatattgat gatgtattga tcattgttta tcagaagttt tctacacatt 180
gctgctggat agagcatcta ttgcaactac aattggcgat atctacacag atctatacat 240

aaaagataat aggaagtaag cttctatagt gtgacgtaga ggtattggcc atacaccatg 300
aatgatagag gttgtgcagc tgatattcat agtttaatta cttattcctc caaagagata 360
catattttta gctataatgt gttaccttgc tgacagtaca tcgatatatt ctccaatctg 420
gttcaactat gcct 434

<210> 7977
<211> 195
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-036-Q1-E1-D12

<400> 7977

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tttgtctgga taaagtgtcc agttgaggag gtctcgatat gaggaaaagg aagaggcaag 180
atctcaagct tgggg 195

<210> 7978
<211> 429
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-036-Q1-E1-D3

<400> 7978

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agccctccgt cacgggcccc gtgcacatct ggcagggtgt tgggaagggtg atcaatgtga 180
acaagatgat caggggccaga tggagtgaag atcctaatac cggaccagag gccgacttgg 240
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ggattattct ttgaccttcc acaattcctt caggcgtcca taacatcaag cataattttg 360
gtgtttctta accttttgca ttctactcta atcatttaaa ttgggcctat gactcagaag 420
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<210> 7979
<211> 416
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-036-Q1-E1-D4

<400> 7979

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gtgagcatat cgggcttgat gtatcattag tggctcacc ccaatctaag ggtaagctg 360
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<210> 7980
<211> 289
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-036-Q1-E1-D9

<400> 7980

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agttcaaaaa tctggtgctt aagaagtgat gtccgtaggc aggttagttc gtcggtgtct 180
tcacgtccca ccaaggacct ctaccttga cctgacctgt ggaatgaatg aatataatga 240
agtgttaact tgaccttta cgggctaaaa aaaaaaaaaa aaaacaaaa 289

<210> 7981
<211> 415
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-036-Q1-E1-E1

<400> 7981

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 caagaagcag tcgaagataa ggcattgcact gacaccacag aaaaccaagg ggaacctcaa 240
 caaagcattg tttctacttc tgctgagctt actccaacag aagaagaaac agcagtagta 300
 aagcatactc aagatacaca tgtacagaat gccagcagtg aaccgggaac tgacccaaat 360
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<210> 7982
 <211> 332
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-036-Q1-E1-E10
 <400> 7982

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 tgatatatat ctacttggg agttagaaac tgaacaatgt ttacatgtt tacaatatcg 180
 cgaggagaga cgggttgctg ctgctgtttg tgctttcacg agttttgcat gtatatggtg 240
 gtctgaacat tgtagattat atccgattcg aactacttgg gctgcgttga caactgctat 300
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<210> 7983
 <211> 398
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-036-Q1-E1-E2
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 tcctcgtgaa cagtgcact atcattgcag actccttgcc cgatactcct gttgcgggtg 300

atagtatcgt agtgtttaca tcatcatgga tcacaactga caccttctat cagctaaaga 360
gtatttgctt agctgcttag tccttcagtc ccacccctc 398

<210> 7984
<211> 386
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-036-Q1-E1-E8

<400> 7984

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tattcctcat ccttgagtag tgttcaagca tactgtggct gtttggctcc agttttggaa 180
gtcatttttg tttgtctgag acatcttgga aagaacagtg taagaatgaa gtattttctgt 240
ttaatgccag ttagtatttt tgtcgaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 300
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aaagggaaac acacgggaac ccagag 386

<210> 7985
<211> 398
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-036-Q1-E1-E9

<400> 7985

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cagttcaagc gtcctgtgga tgtatcagag aaggaaattg atgccgcggg agatgggtgat 180
gtgttggtca ttttggatct cagagctgat caatcattga ttgaagctgg agtgggtcga 240
gaggttgtaa acagaatcca gaaattacgg aagactgtc agcttgaacc cacagactta 300
attgatgtgt actacgagtc tgtagacaac agcaatacac ttgaagaaat tttgcagtca 360
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 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-036-Q1-E1-F1

<400> 7986

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 gccgtcagac ctgaagaaga gcattatgca ggctagaacg gacaagaagc tcacacaggc 180
 acagcttgca cagctgatca atgagaagcc acaagtcac caggagtacg agtcaggcaa 240
 ggctatccca aaccaacaga tcatoggcaa gctggaaagg gctcttgga caaagctgcg 300
 aggcaagaag tgaagccgcy tgcacttgac aggagtcgag gctttcaaga gagcttggt 360
 gggcaagttt accgctaaat aaagcttgtc tactaaatca tgcgacttaa gaaaaccct 419

<210> 7987
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 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-036-Q1-E1-F11

<400> 7987

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 gtagatacgt tggagacgta tcaactcccc caagcttaaa cctttgcttg tctcaagca 180
 attcagttga taaactgaaa gtaataaaga aaaactttta caaactctat ttgctcttgt 240
 tggttgtaaac atgaaaagcc agcattcagg ttccagcaaa tattatgaac taaccatact 300
 cacaataaca cttaggtctc acaattactc atatcaatag cataatcagc tagcgaggca 360
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<210> 7988
 <211> 401
 <212> DNA
 <213> Triticum aestivum

<223> unsure at all n locations
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<400> 7988

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tccaaacacc gttgtatggg taacatcttg attaatcctt gcctcttacc taaatgggtg 180
gggtactttct ctcccaccct gtatgccatg ttctgcttgt acatgggaag gatatactcc 240
taataatagt gtgtaaacac aattttcctt tccattgttc tgtttaatct tataatcgtg 300
ttttcctttc cattcttttg tttaaccttt cctgaatcta acttaactga gcagagataa 360
atccctgctt aagtangcac cttgttgtac cactctgtct g 401

<210> 7989
<211> 357
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-036-Q1-E1-F3

<400> 7989

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cgcgagaacc aacgggtaccg atgatgatgg gaatggcaca acgacgacga tgctgccgaa 120
ccgccgggac atgatctgag tctgtgcgga tcggactgcc ccttgctaga taatgtacgt 180
acgtacgggt accattaacc aagcatgtcg tgattgcatt attttttggc ccctgattgg 240
atctcatagt acttatgata tacttataac caactcaacc cccctcctcc ttgctcttga 300
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<210> 7990
<211> 419
<212> DNA
<213> Triticum aestivum

<223> unsure at all n locations
<223> Clone ID: LIB104-036-Q1-E1-F4

<400> 7990

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 tagcatgatc atgtagttga catagtattt gtggcaaagc caccgttcat aattctttca 240
 tacatgtcac tcttgggtcca ttgcatatcc cggtaacccg ccggaggcat tcatatagag 300
 tcatcttttg ttctagtatc gagttgtaat cattgagttg taaataaata gaagtgtgat 360
 gattatcatt ttctagagca ttgtcccaag tgaggaataa attaanaaaa agagagaaa 419

<210> 7991
 <211> 380
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-036-Q1-E1-F9
 <400> 7991

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 tgacgaatgt gagtccatgg atatatgcac actcatcctt ccactttgct agcctttatt 180
 attaccgcg c aactttcgcc ggtatcataa accccttatt tacctttcct caaaacagcc 240
 accataccta cctattatgg catttccata gccatttcga gatataattgc catgcaactt 300
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 tgtagttgac atcgtatttg 380

<210> 7992
 <211> 408
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-036-Q1-E1-G1
 <400> 7992

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 gatgggatcg agctgtttga cgtacgtagt agcttacgta tgtgtgtatg atcagacgtg 180
 gccatgtgtg attcgattgc tttcaaaact gctaggttgt cctctcgatg tatcatttgt 240

tttagagaga taagacaaga ttttaagcatg atatggttta tcaattctgg agatatggca 300
acaagttgag caacaccctt gcatgttcat gcatgttacg caacactgca ataccttgtc 360
atgccacaca atatgggcgc gcatagacac cggaagctaa gccgatat 408

<210> 7993
<211> 409
<212> DNA
<213> Triticum aestivum
<223> Clone ID: LIB104-036-Q1-E1-G3
<400> 7993

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cagcaacgag gcggtcgagg aggcgcggat caagctgctg gagctgcggc aggtgaacaa 120
ggtgaaggcg ctcgtcggcg ctttcgagac cgtcatggac gacaaccaa gccccgccac 180
cgccccgaag cgcgggctca acctccacgc ctgaactacg agtacattcc accagcatga 240
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atttgctgct gtcgcacact tatctataat tacggatcg cttatatattt gcaaggagga 360
agatgatgga agggttatca tgatgtaata ataataatga tcatggaag 409

<210> 7994
<211> 398
<212> DNA
<213> Triticum aestivum
<223> Clone ID: LIB104-036-Q1-E1-G5
<400> 7994

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tgaccggtcc atcctcttgt tgattcagcg atttcgtcca cgcctccctc tctccttct 180
ctcgcgtgcc gtgcggtgcg gtgcggatta agtgcggaatt aagtgtacat aattcaagga 240
ttaaagggcg gccattagag tagattattt ctttcgtttc ttggtggtgc gagtaataac 300
tagaaatctc tcgcgaataa ctgtgtcgcg aatatcgatc tgagatcaa gagattgacg 360
acgcttgaag gggatataaa aagcagtggt tgatggtc 398

<210> 7995
 <211> 393
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: LIB104-036-Q1-E1-G9

 <400> 7995

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 ccttgtgtcg tgcaactttc accggtacca tacaccaac atataccttc ctcaaaacag 180
 ccaccatacc tacctattaa ggcatttcca tagccattcc gagatatatt gccatgcaac 240
 tttccaccgt tccgttcata tgacacgcat tactttctgtc aaattgcatt ttgcatgac 300
 aggtagtga catcgtaatt gtggcaaggc caccttcata attttcatac atgtcgctct 360
 tgattcattg catatcccag tacagcgccc gga 393

<210> 7996
 <211> 388
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: LIB104-036-Q1-E1-H3

 <400> 7996

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 tgctatttta tatgattttt ggggactaac ctattaacct agagcccagt gccagtttct 120
 gttttttcct tgttttagag tatcgagaa aaggaaaatt aagtggagtc tagttgacct 180
 gaaactccac ggaacttatt tttggaccag aagaagccca cggagtatcg gagatggacc 240
 agaagagtcc caggctgccc acgatggtgg gggcgtgctc acgccccctg cgcgcgcccc 300
 ctgcctcgtg gacagcccgg agatccaccg acgtacttct tctcctata tatacccata 360
 taccctaaaa acttcgagga gcggaata 388

<210> 7997
 <211> 366
 <212> DNA
 <213> Triticum aestivum

<223> unsure at all n locations
<223> Clone ID: LIB104-036-Q1-E1-H4

<400> 7997

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catcgagata cagtaccacc angcgttcat ataaacatct aactcgttc tgaatatcga 180
attggttcac gactgttata cgtaagggtc ctggtaaata tacgtatcat tgtacctatt 240
tcacttgata cgactgttgt tttttcacac tgccaccatg ccatgtccaa gtgaggcacg 300
cagcttctca aacttgtgtt gttgtgcctt gtatgctcgg atcttaagta cattactttg 360
tttcac 366

<210> 7998
<211> 382
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-036-Q1-E1-H8

<400> 7998

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tgttcgtccg acgaaggctt cagggtgagcc cgccaaggaa gttagaatcc aggatgccgt 180
gtgaagcggc gagcacggcg aaatgccgat ggtgctgcgt tagaagcggc aagacgtatc 240
aaaggctgga gccgtgatgg actgcatcaa attgggtccg gtgaaccggc cggtcgttct 300
cttttgttgg actagctgtt catgcgtgag ttcgtttagt cctagccgag agtatcgttg 360
ctagtagttg atgcatgcat gt 382

<210> 7999
<211> 215
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-036-Q1-E1-H9

<400> 7999

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gataccaatt gttggcgccg cctcctcgcg ttgcagcgcc gtccttctt ctacctcaag 180
ctgccttaga caactctctt gaggtttctc tcaag 215

<210> 8000
<211> 420
<212> DNA
<213> Triticum aestivum
<223> Clone ID: LIB104-037-Q1-E1-A6
<400> 8000

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gaagacgagg ctgttgcgct ggtggggcag gaggggctct tctggttcgg gagcttctgg 180
ggccggacgg agcagggcga ccccggtgtct tccgaggatc agatgtacgc aagcttgagc 240
ctgccggtag ttctagagag agtgccgggt taggcaccga tgatgatgca gtttgatgca 300
agcggcttgc attgcagctt ctaaagtagg tttctacttt tccatccggc caaggatctt 360
atccagagta gcagctatta catcatttgg tcagtgcact gacccctac tgtacatatg 420

<210> 8001
<211> 401
<212> DNA
<213> Triticum aestivum
<223> Clone ID: LIB104-037-Q1-E1-B1
<400> 8001

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aattgcttcc ggtcgcaagt acatctcaca cagtcagtcg gcgcgaaacg tttccattcg 180
tatgtacatc acaatcagtc gtcctaagga aaacatcttc gttcacaagt acatcataca 240
cagtttcccc cgttaaatca tttgtgataa cgttgacaat gcacacgata ttaacaattt 300
taacgtttgc attaataaat ggatcataca ttgtgcgtac aagaaactgt atgggaaagg 360

ttgtccatca gacacaattt ttacttggtgta aacgtttgcc c

401

<210> 8002

<211> 411

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-037-Q1-E1-B2

<400> 8002

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cgccatgtga cctttgagaa cgtggagagg tggttgaagg agctccggga tcacacagat 180

gcaaacattg tcacatgct tgctggcaac aaagctgac tccgccatct tagggctgta 240

tcagtggagg atgccaaggc ctctcgtgag agggaaagca ccttctttat ggaaacatct 300

gcgctggagg ccatgaatgt tgagaacgcc ttactgagg ttctgactca gatctaccgt 360

gtggtcagca agaaggccct cgacatagga gatgaccctg ctgctccacc g 411

<210> 8003

<211> 396

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-037-Q1-E1-B4

<400> 8003

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ttcatgtcaa gttgcaacag tgcacgcaca caccagggag gcttctgtac ttagggacgg 180

tgaatctgca tcaacagtgc tggatggaaa atgcacgccg tccttcttcc ataaaccacg 240

tagggacctt gtattagcct ccccatctaa ccgtcaggaa gccctgacat gccctgctat 300

tgctgtcaac aatgctaccc tatgtagcac acgaactgaa ctttaagtatg tcacatggaa 360

cttcaggtag caaagccaac agaaccaata ttaatg 396

<210> 8004

<211> 99

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-037-Q1-E1-B5

<400> 8004

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cgctccgcgc gtgacacttg ggcggggggg aactataaa 99

<210> 8005

<211> 417

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-037-Q1-E1-B6

<400> 8005

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cccatccggg gatcacgtg ccggcatcac gggggctctc atcgccggtg gggattgcgc 120

ggatccagcg agacgacgtc gtttccgtgc atgaggaggc agatcaggat cgggatcgtg 180

accggtcctc gggctttctc catccggcga gatggcgagt cagattagag gatactcgga 240

caccgcggcca tcggcgcgag ggtctgctgt attcttattc accgttgagg tggacgacgg 300

tgactgatct cgagggagac atcctcgccg gccggcacct ggatgatggt gagcaactgg 360

tcgaagatta tcttccgagc cactgcgttg atccatatgt ggtcgctact cactccg 417

<210> 8006

<211> 377

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-037-Q1-E1-C2

<400> 8006

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cagcatcata tccatcgtgt ccatccaggc acggatcgtg acgcaatacc ctttcccat 180

gcagatgcac gatagccaat cggagctcta cccttgaggt cctgcactgg cacgatgaaa 240

ccgtgcttcc ggatctcctg ccggcagtca gtcaaacata tcgaacgcag ctagcggtac 300

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atctggaaca tccatca 377

<210> 8007
<211> 394
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-037-Q1-E1-C3

<400> 8007

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caaggagatt gtggagaacg cgtgcgtggg gaagaggagc tgcgtgctgg ccgtgtcgca 360
cgatgtgtac ggcggggacc tcaactgccc gggc 394

<210> 8008
<211> 344
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-037-Q1-E1-C4

<400> 8008

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tcggtgctat atcgatggg tttcacctct agcctatccc aacttgtttg gaaccagatg 180
ctttgttgtt gtcgtccatt ttgcacacag accaataaat gatttaacac tcgctataac 240
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<210> 8009
<211> 416
<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-037-Q1-E1-C8

<400> 8009

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ctgagcagaa gtgcatgtca gtggaagtaa ttcggaaggc tttccgagcg acctaggatg   360
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<210> 8010

<211> 373

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-037-Q1-E1-C9

<400> 8010

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tccatgaagc cggcgggtcga tccgcaacag accagcatgc gatcaaccgt gcgtgcgagg   180
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cacatctaca tatatctacc gtgggattgg gactcgacaa tgttggtacg ctgtcgggca   300
cctatcttct tcgctgggtc tgctggttcc cttgactgcg acgggaatta ctttagtatg   360
tactgtatcc atc                                     373
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<210> 8011

<211> 371

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-037-Q1-E1-D1

<400> 8011

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 gcacgcacgc acgctcttga agaagaagaa gaagctaaat gtcatgtcag tgaacgctga 240
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 gagccgacca tcccaccggc atgtagtaat gtaatccctt cttcgteccc agttccccaa 360
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<210> 8012
 <211> 101
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-037-Q1-E1-D10
 <400> 8012

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<210> 8013
 <211> 103
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-037-Q1-E1-D4
 <400> 8013

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 ccccaaaagg cctactccga attcgactat ggggactcag ccg 103

<210> 8014
 <211> 339
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-037-Q1-E1-D5
 <400> 8014

gttcactcgt ctgatttttc aaaactgttg gcacattatt gcgaaagact tcattgctact 60

gattcaagct ctccacgaaa gccggtttta ctcgtttggg gcacttagct cttccataat 120
 taccttgctt cccaagaatg aggactccaa tgcaccttgg agacttcagg ccgatcaact 180
 tgatacatgg aactgcgaaa atctttgtca aggctttggc tactacgctt cactccctac 240
 tgccttcctt aatatcccaa gcacaaagca cttttgtctg caaacggagt atgcatgaga 300
 attttaaatt cgtgctgaac actgcaagga cccttcaca 339

<210> 8015
 <211> 406
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-037-Q1-E1-D7

<400> 8015

aactgattcg taatagctca tgagacaacc aaccttgaga cttggtgtct tgatatactg 60
 gatagcattg catgcattgc ttgtgagttt tatttgaagg ttatatatta agctgtagtg 120
 atggatctcc ttggtgagcc acctactgta cagtgccatg tctatgacaa gctatgcaac 180
 acaagcaatc tagtcaaaat gctgtcgatt ctttttgaag tttgttactg aatgaatacc 240
 tgaaccaaac ggtcatctgc gtatcatttt tgttgtgaat ctcccccttc tgctggaatt 300
 ggtcctgctt cagctgggtc caaccgaagg gaactgcacc aacagtaccg acgaaagaga 360
 actgaagaaa gcagcagcag cagcaaagat tcctgtaca tactct 406

<210> 8016
 <211> 271
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-037-Q1-E1-E10

<400> 8016

accctaaatt gaatcgatat agagaggagg cccggttgct tgagcaagtg atggtgcat 60
 ggtgttggtt ttcattggagt tgctcgcgac gaaactgggc atcgggaaat catgtaccgt 120
 cttgtctgga ttttccttcg ccagttgat gataactgga aggaagttag tagcaaaatc 180
 atttctgcag gcagttacgg ctgcattgac tgctgtctcg agcaactcag atttgtccgc 240
 ggctgttttt tcgcagcatc agcggcgttt t 271

<210> 8017
 <211> 413
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-037-Q1-E1-E2

<400> 8017

ggtcgacggg acggacccac atggcctgtg gatgatgcaa cccgaggggc gccccagta 60
 aagtaagcta aagatgtaaa aaggataca tgccgcgggg acaggccac ggggcctggg 120
 aataatgcag ctcggggggc gctcccagct aaatggactt ggaaaatgtc atctggtttt 180
 gttgttgaag gagcgttggt gtagctaaag gcgcgcgcta aagaaaccgc tcctcatgag 240
 ccgccaaaac ccaaagccct cgggaggctc tgggggctcg ggtggctccc tgaggaccat 300
 ctctatctcc gccaggacca catgatgcc ggctcctctg gtttcagga tgctccgtag 360
 gctgcgtgg aaagcggctg ccatgctcgg caggccaaat ggcatgcgaa cat 413

<210> 8018
 <211> 444
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-037-Q1-E1-E9

<400> 8018

cctgggtcga cggggatgat tcaacggatt aagacgacga cactgacagc tgctcgacgc 60
 ctctgcccc gccgcccgcg cccggtatgg agtgggagta cacggacca atcactatgc 120
 gcccttgga ttttcttcca tcttcgttgg ctgatcggga cgataaagaa gtggcctcac 180
 aagtcagcat ggatgacgat tgggtggaaa cgaacataga atttgatgga caggatgaaa 240
 gcgtctctgg caatgctgat ggcatactta ggcgtgtgga attgcatcca gcaaagagta 300
 gggttatggg tgatgaaaac tcatcaatga tgagcagctg ggtaacaaag gactcgaact 360
 cttcggatgat ggctgggag actgacaagt cactggtaga aatagccaag gagattgatg 420
 agtacttctt gaaagcagcc gcaa 444

<210> 8019
 <211> 93
 <212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-037-Q1-E1-F2

<400> 8019

gacgggccta ggataaggaa aggtgggtcag cccaagcaag tgatcacgaa ggggcatcat 60

tcaacgagac cgacagccag gagatccacg tgg 93

<210> 8020

<211> 446

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-037-Q1-E1-F4

<400> 8020

gtccatgggc caccggaaga tgagtcgtat gaggacgacc gcgctgatta caggaaatct 60

gaaccacta cctacatcaa tgctcccttg gtaggggttc ttgcctactt cgttggcaac 120

ccaaaccag gccatatcag aactgagca taagcacttt gccatgtaga tagagaagag 180

tgacagaagc tataaatagg tacacaggaa gcaaataagg ttgtgattgg atggcactac 240

atgttcatag gagggtgatt cagagcatgt gttctaccaa taatgagagc ttatctttca 300

tgatttttct tttgtttggg tttgcaactga attttgtttt gtgtgaagggt gtgcacagtg 360

caatttaact gcactgggtg agtcatgagt gaagaaagct tgcattttgc acaaataatt 420

ggtatggaag gtactcctgt ttcaag 446

<210> 8021

<211> 401

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-037-Q1-E1-F5

<400> 8021

gggacacca aaactgagtc gtataaacga cagtaaagc tggattcagc ggatccaagt 60

ccagtcagcg gaagaagccg ttcaaaagaa acaatcaggg accgtccagt ctggaccgta 120

tactggagcg ctctgtcaca cccaatatgc gatactatcc taaagagact cgaaggtccc 180

accaaggata gaaccgcata ttgaaacgct tttgcaagggt ggatatcatt acatcaacat 240

tacataatag atggagatac atacaagagg catcgaatgc catacgaata caacatcatc 300
 atacataaga acatcatccg actacggatg aaacacaaac agaaactcaa atgacatcca 360
 ccctgctagc cccagctgcc aacctggaac ctattccccg a 401

<210> 8022
 <211> 424
 <212> DNA
 <213> Triticum aestivum
 <223> unsure at all n locations
 <223> Clone ID: LIB104-037-Q1-E1-F7
 <400> 8022

ctcgcggggtc gacctcagcg gacaaagtgc atcgcatgat ggcgggagatc gacaccgatg 60
 gtgacgggctt catcgacttc agcgagttca tctccttctg caacgccaac ccgggggctca 120
 tgaaggacgt cgccaaggtc ttctgaatca gttcatttca cctcagccgt ccgatccagg 180
 agccgatcca tctacgtacg gtttcgtata tcaatttcat gcaactacct actccgggtcc 240
 cgatccagcc tcagcttcac ctgaggcccg ccctaatttt gtttgatcaa tttttttgct 300
 actagtagta actagtgatg atcactgttg caccatttat ttattttata tcgtcacaac 360
 tttccagtgt ttcttttctt tctctacctt tntgtcgatc gtcgggtcca gtcgatcga 420
 acga 424

<210> 8023
 <211> 414
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-037-Q1-E1-F9
 <400> 8023

cctacatgcc atcgtaataa ggcaagcccc ccccccttg atcaccagat atcgcttact 60
 ctctctata ctgcttgcac tagagtagtg tagcatgtta ctgcttttcg atatcctatt 120
 ctgatgcata gcctatcctt gctactactg ttgatacctt tacctgcaat cctacatgct 180
 tagtatagga tgctagattt ccatcagtg cctacattc ttgtccgtct gctgtgttat 240
 actatcgggc cgtgatcacc tgggcggtga tcacgggcat atacttatat actatataca 300
 tgacacatgt gatgactaaa gtcgggtcgg ctcgtaggag taccgcaag tggatctttg 360

tggcggagcg acagggcagg ttgagaccgc ctacgtaaga ggtgggcctg gccc 414

<210> 8024
<211> 255
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-037-Q1-E1-G1

<400> 8024

aagcacaata gttgtttctt acccgtctgc ggtgccccct ccacgtttac tccctccggtc 60
atattgtcgt agtgcttagg cgaagccctg tgcagatcac atcagcaaca ccaagccggtc 120
gtgctaacgg aactcatcga ctccctcgta cctctactgg atcaagagtt caagggacgt 180
catcgagctg aacgtgtgca gaactcggag gtgccatacg ttcggtactt gatcggttga 240
ttcgacaaga cgttc 255

<210> 8025
<211> 418
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-037-Q1-E1-G2

<400> 8025

gtcgatgggg aaccctaggt tgcgtcgtat gaggcgggga ggggagaaga ggagcgggga 60
tggcgcaggc ggtggaggag tggtagccgc agatgcccat catcacgcgc tccctacctca 120
ccgccgccgt cctcaccacc gtcggctgca cctcogagat catctcgccc taccacctct 180
acctcaaccc caagctgggtg gtgcagcact acgagatctg gcgcctcgtc accaacttcc 240
tctacttccg caagatggat ttggattttc tgttccacat gttttttctt gcgcgctact 300
gcaaacttct cgaggagaac tcattcaggg gaagaacggc tgactttttc tacatgctct 360
tgtttggtgc tactgtcctg actagcatcg ttctgattgg tgggacaata ccttacat 418

<210> 8026
<211> 387
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-037-Q1-E1-H6

<400> 8026

accccaaadc gagtcttatg atgatggact gtctatggat ggatcatgga taggtagatc 60
ttgatccgtt cttttgccta ggtcaggggc cactggaaaag ttgaaaagcg cttgaaagtt 120
tatgctgcct gttcaaata ga tcttcttatt tcaggggaaa tgatctttac aaccactca 180
agcatccagg acgcagtcgc cataataaag cagtttgatc gtgtatcgat cacgtagacg 240
gtcagcaccg cttttcatta taatacagaa aaagtaagta gtaaattcag ttattattat 300
gctaattggac atagtaacaa ttttgtttct gacgtttttc caaccgtctt gacaacatct 360
agcttcatgt ttccagcttc agtcaaa 387

<210> 8027

<211> 433

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-037-Q1-E1-H7

<400> 8027

gtcgaatgggg atcctgatag tgaatcttat tataacgaaa agagatgcag ctgcatatgg 60
ttttcggttg ttgcttcact cgagcataaa cgggactcac ctctaccaca gataccttca 120
cactatattgc gactaagaga tgcaaatata cctgcttctt ctatccaaaa gtacctcggtg 180
catatactca gtctcccaag tgagtccgag gtggaaataa attgctgcgg gcagccagtg 240
aaccttacac aacctctgcg caatttagta gagttgtggc tgagggggcg atcagcacag 300
gcaacaccgg ccattgtagg ctcccccgcg gaagagtttg tgatggtgct aaattatgga 360
cggccaaagc ccatggaacc tttgagtgea cagtaatgat tcaaccatt tccttttgaa 420
aggtccgggc ttt 433

<210> 8028

<211> 357

<212> DNA

<213> Triticum aestivum

<223> unsure at all n locations

<223> Clone ID: LIB104-038-Q1-E1-A3

<400> 8028

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atcacacgta tccttggccg gctggggggac aagactccat gtcttggcag tcgcagtagc 120
caccgggacg ctccgtgact gttccggccg tcatttccgg cggcgggtccg ggaaacatca 180
acttgccggg tggcggccac ttgcaccggg agcgcccgtt aagctgagat tattgtctcc 240
agctttgagg gttcctagag ctgcttcgcc tgcagctgtt gagaatggga gctctagcan 300
cagtaataca gtccctacac caaaagttat aatagatcaa gactcagatc cggatgc 357

<210> 8029
<211> 374
<212> DNA
<213> Triticum aestivum
<223> Clone ID: LIB104-038-Q1-E1-A5
<400> 8029

ttcgatccga atcatcacac gcatcattgg caggctccat atccgcccac tatgtcttaa 60
cacgggcaag agctagccga gcgcctctg tgcacgtga cctcttcaca gcttctaate 120
gaggcaccac gtcaaggagc tgctgcacca aattaaata acttgctggc ttcgatccgc 180
ccaggcctaa gcaatccatg acatatgtca tggcgagtcc ggacagtcta ttcagctcgg 240
cccactaggg taggcgatcg tccactgcaa gtggacgccc tggattggta aactgcgacc 300
agaagagttt ctccacttca tgattgtcct tatcttgaaa gtacctgggc gcatcggaac 360
cactagcctc caaa 374

<210> 8030
<211> 426
<212> DNA
<213> Triticum aestivum
<223> Clone ID: LIB104-038-Q1-E1-A7
<400> 8030

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acaggcaaga agttgttgaa gactcttcag gatcaaccca gaatcattcc atcaaacaac 120
tacaagagac gtagcaacac ctaaggaaaa ctgagaagac tgcacggggc acagggcacg 180
actactgagt ccgagaaccc ctagggtagg atgagtcgcy taccctctat gcgcagatga 240

gtctgtatga tggttcaaata agaatcgtga ttgtgtgttg cttgttttta ttgtttgtgt 300
 ttttagatag gccgcaactt ttgccctatg caacaagtac gcaactatat caccttcctt 360
 accttgtttc ttttgtttgg ccctttcggc acttgtttgt ttgcacttgc actataaaac 420
 cccctt 426

<210> 8031
 <211> 431
 <212> DNA
 <213> Triticum aestivum
 <223> unsure at all n locations
 <223> Clone ID: LIB104-038-Q1-E1-A9
 <400> 8031

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 taacaaaatt agataagtat ctatctaaag taagaatttt tttctttcag aaagaagata 120
 agaacaagag gctcaccacg gtgggtgctgg cgacgagatc gacgcgggag atcgacggcg 180
 gtgaagacgg ggacgggaca tgacggaccg ctaaacctag acaaactctg gggaaaatgg 240
 agctcggagg tcgagtttcg agaggagaag gattaactaa ggtggctcag acatttcac 300
 gaacacctca tgttcatang aggtgagcta gagcaccctaa atgcncctcc cctcgcgcg 360
 ctagaaaaaa acagagcagc tcggagagac tgcggagccc gaggtgaagg tgctgaacct 420
 gaccatcctg t 431

<210> 8032
 <211> 386
 <212> DNA
 <213> Triticum aestivum
 <223> unsure at all n locations
 <223> Clone ID: LIB104-038-Q1-E1-B1
 <400> 8032

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 tgtggcgaca caaccagtac aagtggatgg agacgcgggg cgtggacgat gacgggcttg 120
 tgagctgcct cccaaggac atccggcgag atgtcaagcg ccacctctgc ctccgcctcg 180
 tccgccgcgt gccgctcttc gccaatatgg acgatcgctt cctatacgcc atctgcgatc 240

ggctcaagcc cagcctctgc acggagtcca cctacgtggt gcgggaaggg gaccccgtcg 300
acgagatggt cttcatcatc agaggccgcc tcgagagctc caccatcgac gggggccgcg 360
tanggttctt caacaaggag ctcttc 386

<210> 8033
<211> 392
<212> DNA
<213> Triticum aestivum
<223> Clone ID: LIB104-038-Q1-E1-B12
<400> 8033

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aggcacgggg agagtgcgag gcctgggagg gtgctgga tcgcggacgg ggtccagggc 120
gacgagagga agcaggaggt ggccagggga agcaggaggt ggccgaggcc tctcgggcgc 180
gcgccacgcc tcggtccttc tggcgaggag gaagacgaca gggggagtgg agatgggctg 240
ggcgtgctg ggccaggtaa gtgggcgcca ggtaacttcc ttctctctct ctcttttatt 300
tcttttctat ttctgttatt tttttttgat ttgatttaaa ataccaaatt atttaataaa 360
atcctggaaa caattatggg tgctttctga at 392

<210> 8034
<211> 209
<212> DNA
<213> Triticum aestivum
<223> Clone ID: LIB104-038-Q1-E1-B3
<400> 8034

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ttggctctaa tacgtcaaaa aaaaaaaaaa aaaaaaaaaa agcaaaaaga aaaacaaaaa 120
gaaaaaaaaa aaaagaaagc tcaaaaggaa ccacacataa aatacacaaa cataaaacaa 180
aataaatcca tctagacagt catcaaaaa 209

<210> 8035
<211> 442
<212> DNA
<213> Triticum aestivum

<223> unsure at all n locations
<223> Clone ID: LIB104-038-Q1-E1-B5

<400> 8035

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taccttggga tccgggtgga ttcattactt gagcactata tgcctagctt aatggcttta 120
aagaaagcgc tgccagcgag acaacccgga acttttagag agtcatttat ttctgttgag 180
tgctttcata tagtttaaaa acaacaaaaa taaagagggg aaccctaaac tttttctaaa 240
agaaaagtga aagtgagaga gacgagcatt gtgaaagtgg gggacgtcct tgaactttgt 300
tcatgcccac gggaactttg tgaatcttaa ttacagaaac ttttcaataa aaataattat 360
ccccttgtag aattccattg tattataaaa ataatgtgcc aagggttgcc tttaggatgt 420
ntacatttcc ttgatggttt gt 442

<210> 8036

<211> 407

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-038-Q1-E1-D4

<400> 8036

ccttccccaa aaatgattca atccttgga aaaaaattct tccctccgga tcggaggcaa 60
aaggtaaacc caaaatttcc cttagggtac cctatgaaaa cgcatttttc taacttgggt 120
tcaagctttt caggttgagg tttcttgaca taagcatcgc atccccaaac tttcagaaac 180
gacagcttag gtttctttcc aaactataat tcatacgggtg tcgtctcaac ggatttcgac 240
ggagccctat ttaaagtga tgtggcagtc tctaaagcat aacccccaaa tgatagcagt 300
acatctgtaa gagacatcat agatcgcacc atatccaata cagtgcgatt acgacgttcg 360
gacacaccat ttcgctgagg tgttccaggc ggcgtgagtt gtgaaac 407

<210> 8037

<211> 444

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-038-Q1-E1-E3

<400> 8037

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gtcacggaga ttgttgcctg gacaacttct cgggcaagga atgcaacgca aagagccaaa 120
tcgggtggggt gtttgacgct cttcgtgtca ctgatgacct gttgatgagg agggcatatt 180
ttaggaagca gcagcttgac aacaaaacaa catcacctaa ctctaactga agaggacagc 240
cgggtgtgatt tgctcttaca ttgatatcgc atgcgtatga ataatgggcc aatggaattg 300
ggagcggagt aagaagctca tgttgccctt atgcatgtaa taatcatgcc tgcctgcatg 360
gcccgcctagc tgttgggtcca atgcctggct gcctgcctga actggcgctca atttccagtt 420
tgttttttgta atatataata actc 444

<210> 8038
<211> 184
<212> DNA
<213> Triticum aestivum
<223> Clone ID: LIB104-038-Q1-E1-E4
<400> 8038

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ccttaataacc attgaatatc cgggtttggc caatgcactt tggtaatggc attgccccaac 120
tgaaaaggca ttgcaatgat gtgatattat gatatgcttg aagcacgcct agtgactttg 180
atgt 184

<210> 8039
<211> 389
<212> DNA
<213> Triticum aestivum
<223> Clone ID: LIB104-038-Q1-E1-E6
<400> 8039

tcgacggggc cgtgaagggc aaggccgggg agctgaaggc gtggctggag gtgctccgcg 60
ccggcacgga cgggctggcg tgccagctgg acgacttcct ggacgacatt gtggagggcc 120
gcaaggagct ctccgacctc tgcagccact gaccgtaccg atcgaccgct cgacccgatc 180
gatgaaacga cgatggtggt tcctgtcgcc tgcttgccctg gcggcaacgc gtggtggtgg 240
tgtacaagta aagcaatgct gtcgccacct ataagtggcg gcagtacgta gtcgtaggcg 300

tcttttgcag tggcagtgcc ggtctgggat cggagagtgg agtggagtgg agtgtcgag 360
cgttttggtc aggtcatcat gttgttgct 389

<210> 8040
<211> 445
<212> DNA
<213> Triticum aestivum

<223> unsure at all n locations
<223> Clone ID: LIB104-038-Q1-E1-G1

<400> 8040

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atcaaggaca agatcagcgg cgacggccac ggcgacggca agaaggacgg cgaccacaag 120
gagaagaagg acaagaagaa gaagaaggac aagaagcacg gcgagggcca caaggacgac 180
gacggccacg gcagcagcag cagcgacagc gacagcgact gagccagctc cggcccgcgc 240
tccggcagcg tgcagtgtan gcgagatcga tgaataacac ttgggagaag tgtgacagac 300
atatatgttg cacggtttgg agcgtgtggt agcatatgta tgtaatgcgt gacatgcctc 360
atggatcttg tgatgtataa taattagccg gccgcactgc actgaacggt gcttgaata 420
ataacgttaa tcatgttggt attga 445

<210> 8041
<211> 391
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-038-Q1-E1-G2

<400> 8041

gacgggtgac cgctacgatg aagacgacag aaatccaacg gttacggcgg caaaaaaca 60
acacccccaa ccaccctttc tacagggttg gaggcacga caaattcatc gccaggcaa 120
agaagatccc cagcaagaac gcttgatgac gaggtgtggc caccgccctg tacaagttaa 180
tttttttggg atttcagctg tccgccgaa acttgctcac aagcaggagt gtgccagctc 240
ctgctgaggg atccttgttt ttgttcgttt ttactccaat ttaccgtaa taagcaactg 300
cagtgcatt ggtttagtct gcacaacagc aaactactc ttggcttgga aaacttgt 360

gccctttgta atgaaaaacc ggacgcactg c

391

<210> 8042
<211> 177
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-038-Q1-E1-G4

<400> 8042

ggccaagggc cggcgccaac cgggcccggc caatttccgg caaacctta aaaaaaatg 60
ccgcaaataa aaatccaaaa aaaaaaatat aaaaaaaca aaaaaaacc ggcgggccaa 120
aagatcaaac taacttccct taagcaatta aacctcaat gtacaaaatc aataacg 177

<210> 8043
<211> 421
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-038-Q1-E1-G8

<400> 8043

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gtcatgtccc ctgagagctt cettgcaagg tagaggaaag gcttctcgaa gttgtagttg 120
ctcttggcag agatctcgta gtactggagg ttcttcttcc tgtggaaggt caccatcttg 180
gctttcacct gccggttctt cacgtccacc ttgttgccgc acaggacgat cgggatgttc 240
tcgcacaccc tgcagatgtc tctgtgccag gtggggacgt tcttgtaagt gagtcgggag 300
gtgacatcga acatgatgat tgcacactgg ccatggatgt agtatccgtc acggaggcca 360
ccgaacttct cctgtccggc cgtgtcccag cagtagaacc tgatcttgcc gtggctcgtc 420
t 421

<210> 8044
<211> 341
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-038-Q1-E1-H5

<400> 8044

atcccaagag tgagtcgtat tatatcggaa tcatacaagc atacaataag caatcaggca 60
 gaatcacgag tgaaactcaa ataagagatc taaccagaaa gttcagctta agaactctgg 120
 ttcgcaaaat gaatcaaatc aaacgaagca tgaatactca agcggtgaga gaagcaagct 180
 tcgtttatta atctggacta aggtcaaatt ttacagtagc aaaaacgtgg ttaagttgga 240
 taaacggaaa gagggtttcg agacgaagct ctaggcgctt gaatcgcttg attccgataa 300
 atgagcgaaa agttatacta gaacgaagat cggatcagaa a 341

<210> 8045
 <211> 409
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-038-Q1-E1-H6

<400> 8045

ggccgacggg tatgtgtatt tatcttttaa ttagtgtttg tgcaaagtag aacctatagg 60
 ataacctacg atgatatgtt atttgattct gctgaaaaac agaaactttg cacgcacgaa 120
 tataattttg ttaaatacaca ggaatgtgct tttgcgatga ttctttttga tgctgttcca 180
 taaaaaaatt gtcccgact tcctattttg gtaggatgtt tagagttcca gaagtttgcg 240
 ttagttacag attgctacag actgttctgt ttttgacaga ttctgttttt cgtgtgttgt 300
 ttgcttattt caatgcatct atggctagta aattagttta taaaccataa ataagttgga 360
 atacagtagg ttttaacacca atataaataa agaatgagtt cattgcagt 409

<210> 8046
 <211> 70
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-039-Q1-E1-A10

<400> 8046

accgggcgta tattccggat cacggggtat gactaatact atcgatatag gttattctac 60
 atgattactc 70

<210> 8047
 <211> 423
 <212> DNA

<213> *Triticum aestivum*

<223> Clone ID: LIB104-039-Q1-E1-A11

<400> 8047

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cgcggggtcga aagaggcgga taactgcggc atctgcagag ttggaggcaa ggacaacttc   60
tttcaactgcc gcaagtgcgg atcgtgctac tcggtgaccc tccgggataa gcatgtctgc  120
atcgaggact cgatgaagaa caactgcccg atctgctacg agtacctgtt cgactccctg  180
agggaggcgt cgggtgctgcg atgcgggccac accatgcact tgcagtgtt ccacgagatg  240
ctcaagcacg acaagttcac ttgccccatg tgctccgtgt ccatctttga catggagaaa  300
ttcctgaggg ccttagatgc cgagattgag gcgaagttct tacacatggg aaagggatgg  360
atcgtgtgca accactgctg ggacacgacc cgggtgtatc cgggcatgac gggacagaga  420
aag                                                     423
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<210> 8048

<211> 114

<212> DNA

<213> *Triticum aestivum*

<223> Clone ID: LIB104-039-Q1-E1-A12

<400> 8048

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ggtgttatgg tgctacctga atgagttata ccggtgttgt ttggtaccat gcat         114
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<210> 8049

<211> 396

<212> DNA

<213> *Triticum aestivum*

<223> unsure at all n locations

<223> Clone ID: LIB104-039-Q1-E1-A4

<400> 8049

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gggggtttca gcttgttctg aaactgcaac cttggttatc agccgactta caccgggatg  120
gtagcaggcc agcaagcagc acttgactg aacttgtttt tgcattgtcta gatggggaag  180
tgattcttct ctgtgattct tgtatggcca ttgtgtataa tagaaacgtt tgcattgcaac  240
```

cacggctctg gctgcatggg ctaaagagct aaacatgaac agagaacaca tctggagtat 300
cctgtancat acttggggaa cacacgtctc tacagtgaat ttgctgtata cgtgtctgtc 360
agttcgtnta taattttaatt taacatactt gggcag 396

<210> 8050
<211> 417
<212> DNA
<213> Triticum aestivum
<223> Clone ID: LIB104-039-Q1-E1-A5
<400> 8050

tggccctaaa ccccatcatt gacggatttc acctcactcg agtccttatg aacggcggca 60
gcagcctgaa cctgctctat caggatacag tgcgaaaaat gggatatgat ccctcgagga 120
tcaaaccag caaaaccacc tttaaaggcg tcatcccagg tgtagaggcc cattgcacag 180
gctcaatcac actggaagtg gtctttgtat caccggataa cttccgaagc gaagagttaa 240
tcttcgacat cgtcccattt cgaagtgggt atcatgcact gtcggacgg acaacatttg 300
caaaattcaa tgcagtgccg cattacgcgt acctcaagct caagatgcca ggacctcgcg 360
gggtcataac agtaaatgga aacatagaat gtcgctctg tacagaagag cacactg 417

<210> 8051
<211> 451
<212> DNA
<213> Triticum aestivum
<223> Clone ID: LIB104-039-Q1-E1-A7
<400> 8051

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ccttttggtt cggcgccggg cttgggatat tgccatattt cttttcaact ttcgaaaatc 120
aacttgtcct catctttggg gtatgatccc gtctgaatgc tttcctctc ttttgtgat 180
tggcctttaa ggtgagggtc tcaatgaaca acggctctc cttaatgtct acgccatctt 240
cttcactctc acaataaatg tcttcatgcc atggctcgcc ttggccgtca gtcgcttctt 300
gattgttggt gctgccaatg tgctcgacac catgatcttg gctgtgaccg tcttgacttt 360
gggtctcgtc gcgatcgaag gcttggccat ggccctcggg gtggaaggct ttggcactac 420

cctcatagat gatgttctcc atgaaatcgt t

451

<210> 8052
<211> 436
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-039-Q1-E1-A9

<400> 8052

gggtccacgg gattactgta gagcaattga tagaaaagcg aataattatg agaatatcta 60
ggcatgttca tgtatatagg tatcacgtgt ttacagttg gacaaactca aggccggcat 120
ccaacaacta ttaagtccaa cacaattcga cggtatcca gcatgcatct agagtattaa 180
gttcataaga acagagtaac acattaggta agatgacatg atgtagaggg ataaactcaa 240
gcaatatgat ataaacccca tctttttatc ctcaatggca acaatacaat acgtgtcggt 300
tccctttctg tctactgggat caagcaccgc aagattgaac ccaaagctaa gctcttctcc 360
tattgcaaga aagatcaatc tagtaggcca aaccagacta ataattcgaa gagacttgca 420
aagataacca atcatg 436

<210> 8053
<211> 262
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-039-Q1-E1-B1

<400> 8053

taattccaag cctggtggaa cagaaaaaag gccaacctta gcccaaattg gaaaggcccc 60
ttaacaacca acaaattcct aacgggaatt gaaacggcaa gccatgcaac cgaacaacga 120
accaagccaa aaccaaggga caaaagccgt ctttgaagaa tttaagccta accccgggac 180
caagggtcct ccccttctc cgttcaactt tcaaaattcc ttccccaacc ttggtttccc 240
tcctttttcc ccaacttttt tc 262

<210> 8054
<211> 337
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-039-Q1-E1-B10

<400> 8054

gggtgattcc caaagcatgt acatatggtg aaccattatg tgacgaagtc agagcatgat 60
ttattttattg attgtcttcc ttatgagtgg cggtcgggga cgagcgatgg tattttgcta 120
caaatctacc cccctaggag catgcgtgta gtactttggt tcgataacta atatattttt 180
gtaataagta tgtgagttct ttatgaataa tgttgagtcc atggattata cgcactctca 240
cccttccacc attgcaagcc tctctagtag cacacaactt tcgtcggtag cataaaccga 300
ccatttgctt tcttcaaaac agccaccata cctacct 337

<210> 8055

<211> 430

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-039-Q1-E1-B11

<400> 8055

cgggatgacg ttacgagatt ctcaggaaat gaactacgat agcaagctcc aaaacatgag 60
ctgggttctgc taaaacatg tgaaacacgt tgtcccagac aagcatggcc atgtagtagt 120
catataatta aacactaccg agttcagggtg gggaaccatc atcgaggata tcgaagtctt 180
tacgcaagtc catggattag atccaagca tagacttctt ttccttgaac aagtcaatca 240
gtggcttagt gtgctaggga cacatataga atgaagggtg caagtctcca gactacagaa 300
tacttcgcac gtgcgcatga ctgatttggg atgattccaa aggaaacaaa acaatctttc 360
tcaaattcac ggcggcaact ttcaccaa atgcagtgtat aagaggaagt cactcctttc 420
atcaaacaaa 430

<210> 8056

<211> 226

<212> DNA

<213> Triticum aestivum

<223> unsure at all n locations

<223> Clone ID: LIB104-039-Q1-E1-B12

<400> 8056

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 ggggttggcg acgtggcggg gcgctgattg ggtcgggagt gaggtggang gcggcggccg 120
 gacatgttca agcgggggaa aggatgaaac gtccccggcga tgcgganggg gaatttgatc 180
 tannggtttt gccccgaaaa ctccgngnga aggggaacta atatat 226

<210> 8057
 <211> 329
 <212> DNA
 <213> Triticum aestivum

<223> unsure at all n locations
 <223> Clone ID: LIB104-039-Q1-E1-B2

<400> 8057

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 ggcgggattt gtgttgcgta cctcacacct catagtcttg gttgttgctt ggatgtggat 120
 gttttgtggg atgtgtgacc cctgaccgct gatcgccgct gctctgcttg ctaacgacaa 180
 gttcatgtag ctgacctgtc caacatcact gttggccggc gtacaaaatc cttgcgtctg 240
 tgtggtgccc ctgggactga cctgcatcag ttaactagtg tacatttgca gaatctctct 300
 gttttcttgc agaaaaaaaa taannngnt 329

<210> 8058
 <211> 289
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-039-Q1-E1-B3

<400> 8058

gatgtagacc aatccgatac aaaactccta aattaataaa agaaacccga tttcaacaaa 60
 cgaacaaaaa atcccaattg agaataaggt gaattccata aaccaagat tacaaaaagg 120
 tccaagggtgc aaagataaaa aacttaaggt tgaaggaata aaaaatcctc ctgggttcga 180
 ataacaggga aattcattaa ccacaaaaac catcaaaact ataatctgaa acattatcct 240
 aaataaacia ttttctgaat aatgaataaa ttctaaacca tggggctat 289

<210> 8059
 <211> 369

<212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-039-Q1-E1-B4

<400> 8059

caacaacggg aaccctttcc aaaaattttc ctaaaaaggc ctgaatgtct ccctctcaac 60
 tgacaaccct cggcaaattc acctaacaaa agaacctcgg gttgaaaaat acattgttgc 120
 tgcttcgctg tggaacctta gttcatgtga cctgtgtgaa ataccagga attctgtgta 180
 ccattccggg ttctctcaaa ggctgaattc aactggatt ggtagaaact actataaaag 240
 aggtcccgac ggcaatgaca tcaccagaca aatgttcctc acgtcaggat tgaattccga 300
 cacaacattt ggaaagacga gatggagctg atacatttcg gaaatgttaa gcctacagaa 360
 gaaaacgac 369

<210> 8060
 <211> 455
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-039-Q1-E1-B7

<400> 8060

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 aacatagtct ggaggggttg aatagactac cattaacaaa ggggactgct tgtcaacttt 120
 tagtttcctt gcaattttta gcttttctac agtagtatgt tgcctcccaa aggagttatt 180
 gggtttcccc caaagaggaa ggatgatgta gaacaacaac aaagtatttc cttcggttag 240
 agaacaaagg ttatcaatcc tgtagaaagc ttccatgcta acaatataaa cacacctaca 300
 cacaaacaag atacaaactt gcaccaaca tggcaagagg gttgtcaagc cccttgcctt 360
 gctaattaca agattaaaag aaaattatag agataaatag tggtaaaata gcacgggaaa 420
 taaaaagagt aaattgtgta caagaattta ttaat 455

<210> 8061
 <211> 396
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-039-Q1-E1-B9

<400> 8061

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tcaaggttct ccagctgccca tggcgctggg ggatgaagta cttctgggac accttgctgg 120
acgccgacct tgagagcgac gcggtgggct ggcagtacat ctccgggtct ctgcctgatg 180
gccgtgagct cgaccgcatt gacaacccgc agtttgaagg ctacaagttc gaccatacgc 240
gggagtagct ccggcgatgg ctgccggagc tggcgaggct accaacggaa tggatacacc 300
acccttgga tgcacccgag tctgtgctgc aggtgcagg aattgagcta ggttccaatt 360
accctctccc cattgttgag ctagatgaag ccaaat 396

<210> 8062

<211> 312

<212> DNA

<213> *Triticum aestivum*

<223> unsure at all n locations

<223> Clone ID: LIB104-039-Q1-E1-C1

<400> 8062

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agggaaccaa tttttgtaat ggggttagta gggtgagaga ggagacatgg ataattggta 120
ccgctgctgc ttactttggg tctgcggttg ttggaggtag ttgagactgc tgttattagt 180
ctgttgctcg agctgtagag aactctttgc tgctgctgtt acttccttct gatgtttttt 240
cgttttgtta ttatatagcc ggatggattc gcacgggaat ttaacgcgaa gaaaagatat 300
gcagttttat ct 312

<210> 8063

<211> 409

<212> DNA

<213> *Triticum aestivum*

<223> unsure at all n locations

<223> Clone ID: LIB104-039-Q1-E1-C10

<400> 8063

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ggccgagttg cacagcaaca tcttganaca cgagctgttt gcagattatg tctctatttg 120

gcctaacana ttccagaaca naactaatgg aattacaccc cgcagatggc tccgtttttg 180
 caaccctgag ctgagtgaag tagtcacaaa atggctaaaa acagatcagt ggacaagcaa 240
 ccttgatctt ctcaacgggc ttccggaatt cgcagatgat gaaaaactac atgctgagtg 300
 ggcagcagcc aagctggcca gcanaaagcg cttagccaaa catgtgttgg atgtgactgg 360
 tgttacaatt gattcanata gccttttcga tatacaaatt aaacgcaat 409

<210> 8064
 <211> 424
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-039-Q1-E1-C11

<400> 8064

ttccggatcc acggggctgc gatagtgagg agggcgctgt gctaccact caaattggtc 60
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 ttcaagttcg gctacaacgc cgccactggg cagtacgagg acttgatggc tgctgggtatc 180
 atcgacccca ctaaggtggt gagatgttgc ctggagcacg ccgcgtcagt ggccaagacc 240
 ttcttgacgt cggacgtggt ggtggtcgag atcaaggagc ccgaggccgc gcgcctcgcc 300
 aaccccatgg acaactccgg cttcggatac tgatgagcga cacggccgag tttctctgga 360
 tgacgtgggt taacttttgg taccatggac caagttttga gagattgatt gatgatgatg 420
 atgt 424

<210> 8065
 <211> 70
 <212> DNA
 <213> Triticum aestivum

<223> unsure at all n locations
 <223> Clone ID: LIB104-039-Q1-E1-C12

<400> 8065

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 cccaaaagga 70

<210> 8066

<211> 425
 <212> DNA
 <213> Triticum aestivum

 <223> unsure at all n locations
 <223> Clone ID: LIB104-039-Q1-E1-C2

 <400> 8066

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tttttattat ttttattatt ttctgtttat tttctatttt tctctttctt ttttctgcct  120
tttttctttc ttcttgcgct ttttcttttt gatttttttt gtgttttcag ctaatgtggt  180
cagaattttt cataaaaaact gagattttca gatttttctt cagaaatttc atagaatttt  240
agaatttcac aaattgttcg cttattttaa aaaagtgttc atcttttcaa attttgttca  300
caaaactaaaa aatgttcggt ttaagaaata tggtcccgct ttcataattt gttcacaaat  360
tgctcaggaa tttcataaaa tattcccact tttgaaagtt gttcaaaaca aaattctgaa  420
aatg                                                                    425
  
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<210> 8067
 <211> 369
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: LIB104-039-Q1-E1-C3

 <400> 8067

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cggggaatcc tgggaaataa ccggaccag aacgaacaca agccggcaaa tccaattttc  120
aacaaccaa tttaaaactt gcaaatttta acaagccggt taaacttgat ttgggccctt  180
tggaaaaatt tggtagcccc ggaaccggca atttgaatta acttacaagg tagggccggc  240
cggccggtgg tgtcattcaa aaccggcttt ccgcttggtg caccaaattc ttgcagggaa  300
agtgtaggtc caaaattttg caaaggaatt ggtgaactgg gttcttttat tagaaaccac  360
acttcagcg                                                                    369
  
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<210> 8068
 <211> 413
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-039-Q1-E1-C4

<400> 8068

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acatcagcgg gatgagctcc tacatgtaca accacacggt ggagtcgtgg atataatctg 120
actcacgacg aacacgagcc cgctaattcc atttttcacc aacctatattt acacgtgcag 180
atttttaaca gcctgtttta cttgattttg gtcccgtgga ataattttgt agctcctgaa 240
gcggcgagtt gaatttactt accatgtagg gtcggccggt ctgttggtgc agtcgacatc 300
tgcttttcgc ttgttgacgc taattcttgc acgtgaatgt gaagttctac agtttgacga 360
ggagttgtgt acttggattc ttttaattga aaagcacagc ttcagcgaat aca 413

<210> 8069

<211> 352

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-039-Q1-E1-C5

<400> 8069

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acgacccctt gctccggccg tggcagatcc cgtaccctgc caccgccatg cccatcgccg 120
ccaccgccac gcacatgctc cagtactgat cgatccggtg atgattgggt caataattga 180
ggatcccttg taggagcgga gctgagctgt ggctggcaag aggaagaaga tctaccctac 240
ttggctgctg ccttgaggat tattaccaag gcgtagtttg ctgctatatg ttgtgtttat 300
tattatgttt cagtaagtgt ccgccgtcgt cgtcctcgtc ctccatgtcc ta 352

<210> 8070

<211> 220

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-039-Q1-E1-C9

<400> 8070

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ccgagggcac cactcgggtg cgacaagttc acctcctctt aggcgtgttcg tcggccgttt 120

ctcggatcta gccgtacggg tgcgtttatg gccgtgtaaa cctcgtcgaa tcgtaccga 180
 tgtcactgta ccgcccgaca tgttacaggt gcctgcctca 220

<210> 8071
 <211> 381
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-039-Q1-E1-D1
 <400> 8071

ccacgggaca cctaccaccc cagctccagt gcctacaagg tcatcatcga ctttggcctc 60
 caaaaattct tcaaattaaa ttaactaaca acctaacaat aattgtaaaa ggacaaaggg 120
 gaaaaggagg aaaattaaaa ggaaaaacca aggattttga caaacattca ttaagggggtt 180
 aacacgtttc ccaaaaataa aaggaggaaa aatcctggac tgaccaacat cagtccaaaa 240
 attttgtttc agtttaggtc caaatTTTTT gccaatag ggtttact tttccctaaa 300
 aaaaaaaaaa aaaaaaagga aaaaaaaaaa aaaccaaaaa aaaaaaaaaa aaaaaaaaaa 360
 aaaaaaacg gcccccaaa a 381

<210> 8072
 <211> 68
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-039-Q1-E1-D10
 <400> 8072

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 aatggagc 68

<210> 8073
 <211> 412
 <212> DNA
 <213> Triticum aestivum
 <223> unsure at all n locations
 <223> Clone ID: LIB104-039-Q1-E1-D11
 <400> 8073

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 gggcgctgcc aagcaagagg agctgtctgc taggaccccc ttggttcttc aaccaatgca 120
 ttaacggata acctaaagaa gaattcaatt atgagaatac tgccccgctt tttcccactg 180
 ttgattgatc tgaatcgctg cgaacatagc tctggagatg ttcaacacgc gctgtacaaa 240
 atcttcaaat catcaatagg ccctatgata gaagtataat ggcacattcc cgtcctgcta 300
 ggcgcacaat tttgtgacaa cattctgaca tcctgaatga gcccttcctt caggatcctg 360
 gagttcaagt gcatattact agtccagata tcatgtataa agaggaaaat ac 412

<210> 8074
 <211> 446
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-039-Q1-E1-D2
 <400> 8074

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 cagatattcg aggtgacaca gattgttttg ctggatctgc tggagttggc atgcctcata 120
 aactcaaaca agtacaaggc gatgattcat ggatgtttga ggaaatttct gtatcaccta 180
 gatcattatg tttgaatgag gaaggtgaaa gtgtcgtctt tgagcatagg gaatctggat 240
 cttgtgttga gcacagggaa tctggatctc ctgttgatga ttacttacc catgcaattg 300
 gttcgtgcga agagagtaaa atttctccat atttccttga tcttgatcca agaacttcag 360
 ggaagaaatg tcaagaagta gaccattgga atcataaacg acatcatgac tgtcctgccg 420
 gagactgtaa tgaccagaat gaattt 446

<210> 8075
 <211> 437
 <212> DNA
 <213> Triticum aestivum
 <223> unsure at all n locations
 <223> Clone ID: LIB104-039-Q1-E1-D3
 <400> 8075

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 aaaggtaaag gaacctagga aagtcaaaat aagggtgcgt ttttggccac ccaatcgtga 120

tcaaatgatc aaaatgataa aggaggttta ggtgggtttt tgggcaactt tggaaggggtg 180
 ttgggctgca aactaacga agccttttcg gtcccctcgg taaacctttg agtatcaaac 240
 gaagtcaaaa tggcacgaaa cttgacaggc ggtctaccgg tagtgaacca aggccgcatg 300
 gcaagtctcg gtcaaatccg aaaatgttta acaccgcac acgaaaaang aggtagaaag 360
 ggacaccggg tgacatanga acgccggatt gcaaaacgga caacagggaa aatgcttgga 420
 tgcataaac gaacatg 437

<210> 8076
 <211> 166
 <212> DNA
 <213> Triticum aestivum
 <223> unsure at all n locations
 <223> Clone ID: LIB104-039-Q1-E1-D9

<400> 8076
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 cgggtgggaat aataagaagc cgtgaagcct ccgccggaac aaaaccgggc acgggaagca 120
 agaacatgcg acacgaccgg cgctgccttg ggccgctgga gcaaga 166

<210> 8077
 <211> 242
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-039-Q1-E1-E11
 <400> 8077

tagcttcaga ctgatccag agatacctag gttggctatc gctatgtaga gtggttacat 60
 gctgagagtg gacattatgt gtcagtctct cgtgatgttc tggaatgaca cttctgtcgt 120
 gtcacagagt tctgcgtctt atatatcctc caagtgagcc tttagctgat catagttcag 180
 gtgatgttga tcttgaacga gctagagaca ctggaagggtc gccaaagagta agaagggata 240
 ga 242

<210> 8078
 <211> 451
 <212> DNA

<223> unsure at all n locations
<223> Clone ID: LIB104-039-Q1-E1-F1

<400> 8080

cgctgcccgg taccgccccg aaattcncga gtccacgggg ggccgggcaac agctgctgct 60
gctgcagcag cagcagaccc ggaacaacac cgcaaaataa aaaataaagc aaaaataang 120
agcaaaccac aggaacaac aaaaccaaatt attatatata aaaaaggct ccgcaattta 180
cagatagtaa tttgcaatac ttccttcctt gcttccattt ttgtatggcc tctcaaagct 240
tgcttttggt caagctggaa ttgtatcatt tctcgaaaac ttgtcacctt gaacatgaaa 300
ctattggttt gcacagaaaa aaaaaaaaaa aaaaaaaaaa aaaaaagcgg ccg 353

<210> 8081

<211> 348

<212> DNA

<213> Triticum aestivum

<223> unsure at all n locations
<223> Clone ID: LIB104-039-Q1-E1-F10

<400> 8081

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aatgtgaatt ggaagaaccc ttgatcttga ttcattgaca gaaagtttcg aacatgcatg 120
cagtagttaa agtgtagag atggctctga agaagcaaaa gcctctactg attgttgctg 180
aagatctaga aagtgaggca ttgggcactc tgattatcaa caagctccgt gcaggcatta 240
aggtctgtgc tgttaaagct cctggttttg gggaaaacaa gaaagcaaatt ttacaggacc 300
ttgctaacct tactggcgga gaagtcataa ctgaagagct tgggatga 348

<210> 8082

<211> 284

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-039-Q1-E1-F12

<400> 8082

cgggacagcg ctagaatacc tgcagcacga gaatttcatt gaatgagcag tcagttagtc 60
aaggcaatgc cgagtcctaa ttttacaaaa gtccaagaag acaattgtac ttcgtcaaca 120

tgtgccattt gcctggaaga ctacagtgtt ggtgaaaaga taaggggtgct gccttgctgt 180
 cacaagttcc atgctgcttg cgtggacctg tggctcacat catggaggac attctgccct 240
 gtatacaagc gagatgcaaa tgctggaatg tcaaatttcc ctcc 284

<210> 8083
 <211> 374
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-039-Q1-E1-F3
 <400> 8083

catcattggg taataataat gaaccaaacg gaacaaggtc aagttaaagt gaacaaaggg 60
 ttccaaaaaa ttggaccgct gtagatagag ggggaagggtg atggaaatgt tggatgaagat 120
 ggcggagggtg ttggatgaaga tcgtggtgat gatgatggcc cccggtggca ctccggcgcc 180
 accggaagct agggggagag agccccctt cttcttcttc ttcttcttct tccttgacct 240
 tctccctaga tgggagaagg gtttccgctc cgggtccatg gtctccacgg ccgtgggagg 300
 ggcgagaacc cctcctgaga ttgatctgt cactctgtct ctctctgttt ctgcgttctc 360
 tctattctgc cctt 374

<210> 8084
 <211> 383
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-039-Q1-E1-F9
 <400> 8084

acgggcgtag catagtgtcg gggagccggc gcaacaagcg caagcgctgc caatagtgcc 60
 gggagcaacg gacttcggcg caatgccgca atgtggaaag accggtgtgg agcacgctct 120
 cttgggctgc gccaacgtct acgacaactg actcctctaa gccgtggctt atgggggtgtg 180
 tgttggtata agccacagcg tgtgtggtca ggctcgctac gcgcgacgga ttcacgcggg 240
 acgtacggga cgcactgatg cattcggact cgtcggacac gactgatgcg cgcaggacat 300
 gcgggggtgca acggaaacgt ggcgtgtgtg catgtgtggt gtgcgtgtgt gcgcatgtat 360
 gtgtgtagcg tagtggccac gct 383

<210> 8085
 <211> 53
 <212> DNA
 <213> Triticum aestivum

<223> unsure at all n locations
 <223> Clone ID: LIB104-039-Q1-E1-G1

<400> 8085

attcncgagt cgacgggaca cggtcgaat acctgcagca cgagaaattc atg 53

<210> 8086
 <211> 406
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-039-Q1-E1-G11

<400> 8086

ttccgggatac acgggctgag gagagctcgg cgccgccggc gctctgccac agttcgtgaa 60
 cccagtcgcc cgccggaaca atccgtgttc ttggcccat ttaatttcaa aaataaaaat 120
 tagtaccagc agtgatctgt attaggttgt agtagcacta gtaatagaag tagtagtagc 180
 gtcagtttta gcaggtgtgt attttggatt ggtgacacat tggttttggg gtgccggcga 240
 taagcgggtg agatggatga acaagcaaga gatccatgtc tagtagtagt agttggtttg 300
 ttagaagcaa taagtgggtc tctttcggag gcgagagaga tgtttttagct gttttagca 360
 agcgctagag atgataatgt tggagtgaat tgaggctaata ctcaaa 406

<210> 8087
 <211> 441
 <212> DNA
 <213> Triticum aestivum

<223> unsure at all n locations
 <223> Clone ID: LIB104-039-Q1-E1-G2

<400> 8087

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 tgacaccaca caacagatat gctgctgtca gcagtcctct ctaaataagac actgcaatta 120
 tcgtataagt acatcattgc tgctgtcagc agtgctctct aaatagacac tgcaattatc 180

atgtacatca ttgctgctgc aatgaaccat taagaattat ttaaaatcta gcoctaccatc 240
 tgcgttgtcg tcaacagagg gttgaggcgg agttacaaaa tctgtatgag aaaccgaggg 300
 attgtccgag tcagcgacat ctttgttata ttcagagctg tcagaagcag ctgagatgac 360
 gtcacctgat tctgaatgtg ttctgtcnac atatgcttca agtaaggagc tctcggccac 420
 gtcagcatcg ccgttatgcc g 441

<210> 8088
 <211> 429
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-039-Q1-E1-G4
 <400> 8088

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 gcaaacaagg cctaggaaat caagccactc tggggagcag cgacaacctt tcagtggcaa 120
 tgggttttga cattgccttt cacgatcatc ccccgatta gtagtgattg agccagcgga 180
 tgtgctggta gcaacacatc attctgcctt tgggtttgtc agttcggtac ccattatata 240
 tatgtttttt tctctagcca ttgctattct ttttagtggt gcgccaacg aaagcattgg 300
 agtggtgcca aatttttgcc atgtgccctc ttgtacagta tatcactgct caatcatttc 360
 gacttaaaat gaaagcggtg atgggtatag atttgtgttc tagacccatg gaagatgcta 420
 tgggaacct 429

<210> 8089
 <211> 175
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-039-Q1-E1-H1
 <400> 8089

aaaatgccta ttcaagtatc cttttaagct attcaaaaat tcagtaaaaa tttcgattaa 60
 aaatatgtca tcgatataata atatcaaaaa cgctacagag ctccactca ctttcttgta 120
 aatacaggct tctccaaaag tccgtataaa accaaaaggc tttgattaca ctatc 175

<210> 8090

<211> 355
 <212> DNA
 <213> *Triticum aestivum*

 <223> Clone ID: LIB104-039-Q1-E1-H12

 <400> 8090

 tccgggacaa gcgtgagacg caacgagata caagactcct ttgggttgag gatcgatact 60
 atgtctacgt accatgctac tcagagcttc cagcccaaga aacttcagtt cagtgaatgc 120
 caacttctgt tcaatgtgca tctgtggttg ttctgctgcg atatgctgaa ccaccttgta 180
 tatcacgcta gccggagtc tccgtgtgac cagtccagga accctgccat ttttactttg 240
 tcgatgcaga gttacgttcc tgtactaacc taaaactctt caccatgttc ctagttaaat 300
 accttgttta agtttgctat atacccttta tgtaagattt gatgagctaa aacaa 355

<210> 8091
 <211> 440
 <212> DNA
 <213> *Triticum aestivum*

 <223> Clone ID: LIB104-039-Q1-E1-H2

 <400> 8091

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 tgaccatgag gatgggcatt cagcggcggtt tgatggatga aataccagag attgctgcag 120
 ttgaagctat cacggacaag gacgctgggc ttaagctgaa cgaagagaat gttgagaagg 180
 tactcgatga gatcaggcca tacctcaccg gtgcaggagg cggtaatctc aggtttgtcg 240
 cgatcaacaa attcttcgtg aaagtccaac tcaagggccc tgcagcaggt gtggcgggccg 300
 tccgagttgc tatagcacag aagctcaaag agaagatccc atccatcgca gctgtccggc 360
 tactgccgta aacttcaact gcaaaacatt gctgtgaata tctggttatc caggagaatg 420
 ctatgaatgc gctaactgat 440

<210> 8092
 <211> 379
 <212> DNA
 <213> *Triticum aestivum*

 <223> Clone ID: LIB104-039-Q1-E1-H3

<400> 8092

gaagcgtgaa ctgggcaatc caattccaat tccgaaagcc tccccaaaac aatggcccct 60
 tcggggccgg aaacaaaacc caaccggccc ttccaacttc aacaacggcc ggcaatcaca 120
 atgggtttttt ggaattggtt gccgggcaag aaggccaacc aggaccatga ggcaggctcg 180
 tcatcaacct caccagaaac cgcgccacc tactcaacct cactgatggc attctcaatc 240
 tcccacctgc agctcggccc cgcttccggt cgtacgttaa ggtggaggta tgccgatggt 300
 actggcagac ctgcaccccg ttgtcgtggt ctgttgccaa gcccgccccg cgagccgcgt 360
 gtgcgtgtgc cgagccac 379

<210> 8093

<211> 395

<212> DNA

<213> Triticum aestivum

<223> unsure at all n locations

<223> Clone ID: LIB104-039-Q1-E1-H8

<400> 8093

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 aagcaaaatc acgagtaaaa ctcaaataag agatctaacc agaaagttca acttaagaac 120
 tctggttcgc aaaaagaatc aaatcaaacy aagcaagaat actcaagcgg tgagagaaac 180
 aagcttcggtt tattaatctg gactaaggtc aaattttaca gtagcaaaaa cttgtttaag 240
 ttggataaac ggaaagaggg ttctgagacy aaactctagg cgcttgaatc gcctgattcc 300
 gataaatgag cgaaaagtta tactagaacy aaaatcggat cagaaatcac gaanaaaaaa 360
 gcnaaaccag aaaaaaaaaa aaaaagcggc cgctc 395

<210> 8094

<211> 449

<212> DNA

<213> Triticum aestivum

<223> unsure at all n locations

<223> Clone ID: LIB104-039-Q1-E1-H9

<400> 8094

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ctgcacgtgc anggggacat gtcggtgttc ttcaactgca gggtcgangg gtaccaggac 120
acgccgtacg tgcacgccaa ccggcagttc ttccgcaact gcgaggtgct gggcaccatc 180
gacttcatct tcggcaactc ggcgggcgtg ttccagaact gcctcatgac ggtgcggaag 240
cccatggaca accagggcaa catggtgacc gcgcacgggc gcacggaccc caacatgccc 300
accggcatcg tgctccaggg gtgcaagatc gtgccggagg acgcgctgtt ccccgtcagg 360
catacgggtgc ctagctacct cggacggccg tggaaggaat actccaagac ggtgatcatg 420
gagagcacca tcggcgacct catcaagcc 449

<210> 8095
<211> 421
<212> DNA
<213> Triticum aestivum
<223> Clone ID: LIB104-040-Q1-E1-A10
<400> 8095

tagccgtcgt agaattcaag ggtcgacggg agatacaaaa tatattttca aatatatagg 60
tcacgtgggc aatgccttgg tgacggcaaa atgggtgcat tcgtccggtg acacagattt 120
gctatggccg cagtgacaag gtaggtatca gtttcgagat ctacggtttc aagcatcaga 180
aggtatctaa atagggtgaa ccttgtcaaa gaatggtcac atattatact ctctgaatat 240
catcctactg aaagtaattg aagccttgcc ttcacgatca tcaaattggtt gcatctctaa 300
catagtggag cacaatttta tgataacata gactcaaaaa aggaaaaata gacagagggt 360
ttagaaccct agacgccacc ttctccacct cgctcctcct ccgggtgccc tgcactgctc 420
c 421

<210> 8096
<211> 387
<212> DNA
<213> Triticum aestivum
<223> Clone ID: LIB104-040-Q1-E1-A11
<400> 8096

acggggcgaa aggaggtcaa cggatggcac ggaaaaacag gttgcgaagc tgatggacga 60
ggacatcggg gccgcaatgc aatttctcca atcaaaggct ctctgcatga tgccagtctc 120

ccttgccatg gctatctatg acacacaaca ttcacaggac ggccaaccag tgaagcctga 180
 acccaacaac actgcctagt atagtaacag cagctgcaac acccatcccc gcagctgcta 240
 gtaggcatgc atgaacctgt tatcaaagt ttaagataaa aactgctggg tctgatccac 300
 taactacaag gagggctggaa aagacctaaa ggatcctctc cactggaagt tgtatcgacg 360
 gtatatgatg tcacctacta acccttt 387

<210> 8097
 <211> 408
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-040-Q1-E1-A12
 <400> 8097

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 gccgccgccg ccgccatgtc agggaggaag aagaccgcga gcccaaggag gagaacgtga 120
 cgctcggccc cgccgtccgc gagggggagc acgtcttcgg cgtcgcgcac atcttcgcct 180
 ctttcaacga caccttcac ccatgtcacgg atctgtccgg gagggagacg ctcggtccgca 240
 tcaccggtgg catgaaggtc aaagctgac gtgatggatc atcccccttat gcagctatgc 300
 ttgcatctca ggatgttgct gtaagatgta aggagcttgg aattactgct ctgcacatta 360
 agctccgtgc cactggtgga aacaagacaa aaactccagg tcctggtg 408

<210> 8098
 <211> 364
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-040-Q1-E1-A2
 <400> 8098

gggtcgacgg cgcagcaatc cttgagtacc ttactgctga ggtccttgag ctggccggca 60
 acgccagcaa ggatctcaag gtgaagcgta tcaccctctg ccacctgcag cttgcgatcc 120
 gtggagatga ggagctggac accctcatca agggcaccat cgctggtggg ggtgtcatcc 180
 ctcatatcca caagtccttc atcaacaaga cctccaagga gtgaatgaaa tgcaataacg 240
 ggtagttggt gtgcgttgta tcttcgtgat cccctgttat gttgtgctat ctgttatgtg 300

ttgctattat cacaacctga ataggttgtc tgaatttgtg atggggctag ctttcggtaa 360
cttg 364

<210> 8099
<211> 378
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-040-Q1-E1-A4

<400> 8099

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agatgtcatc ggctgttgtg ttccttcaac tttcatggct gaagtaacct tttgttcagt 120
aatctgcgta attgttttct gctttttttt tgagcttgta tcatgaagag ttgtagaata 180
ataattagcc gcagatgggt aagagaaaac aaagtgccgg tattcaacag gtgctgatgc 240
tgaacttttg gttaaacaga gctcagtgtg ctatgttagc aagggtgtat gaaaaccag 300
catccttttt ttggatccca gtggtctctg gttatgtagg gtaaaaatgc tatcaatagc 360
agaattctgg cttggtgt 378

<210> 8100
<211> 343
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-040-Q1-E1-A7

<400> 8100

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tgggatattg ccatatttcc tttcaacttt cgcaaataca cttgtcctca tctttggtgt 120
atgatcccggt ctgaatgctt tcctccactt ttgtgcattg gtctttaagg tgaggatcatc 180
aatgaacaac ggctcctcct taatgtctac gccatcttct tcatcttcac aataaatgtc 240
ttcatgccat ggctcgctt ggctgtcaat cacttcttga ttgttgtggg tgccaatgtg 300
ctcgacacca tgatcttggc tgtgatcgcc ttgacttttg gtc 343

<210> 8101
<211> 367
<212> DNA

ggcgggtattc cccttcatcg ccgtgcacga ggagtaccct taggctccgg cggcgatcaa 180
agagacggaa tccatggcgg ggttgcagcc gctcgcgccg cctgctcgcg acgtccggac 240
caactggctg ctggcgcgct ccgtgatgca ggtgctcttc tcgaagcacg gcgagctcag 300
acgcctcgac aacctgggtg cctccctctg cggcgccagg attccctgca gcccgaacggc 360
gctggacctc cactccggca gccatagga 389

<210> 8104
<211> 292
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-040-Q1-E1-B3

<400> 8104

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tactgaggaa ggatcttatt aagctcacga cgtccaagct gtgaaatgtc gaccgttatt 120
ctgctctgtg ttatcctctg aaatgtcaat tgattcatcc ttggatcctc atcattgtac 180
aattattatt ttctcttttg cccttcgtca caatagcact ctgagtatct gtaactgaag 240
gatttcagcg gatgtgtagt acatgagagg tctctgtgta aattggttct gt 292

<210> 8105
<211> 292
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-040-Q1-E1-B4

<400> 8105

agaacaaaga gaggccgctg gtgctccgca acaagggtccc gaggtggcac gagcagctgc 60
agtgtggtg cctcaacttc cgtggccgcg tgaccatcgc ctcggtgaag aacttccagc 120
tgatcgccgc gccgagcctg ttggaaccgc agccctctct cactctcggc tagaggaaga 180
agaagacaca agacacgaga ttttccggtc ggcgacacgaa cgccgccacg ggcgacacgaa 240
cgcccgaatc tttttcctct ttgcaatgtc tacatggtgc tcaactcagt ac 292

<210> 8106
<211> 385
<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-040-Q1-E1-B5

<400> 8106

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gggagcccat caagtagcct tggagttggt gctgttggtc gtaccagagg gatcgtgcaa 180

agttgaccac ctattcgtct ttgtcgtcct tgggtgatgg gaggggtggc ggtagtgccg 240

gactctttgc gtcaagatga tgttccattt gcgcgccctt gttctggggc agaatagatag 300

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aattgttgga agtggatgat tgggc 385

<210> 8107

<211> 377

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-040-Q1-E1-B6

<400> 8107

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ccaatctata aagctatatt gggccgcttg gcgaatcaag atcaagatca ggaagttaaa 120

gagtgtgcca tatcttgcac gagccttggt atcgctactt ttgggtgatgg tctccagagt 180

gaattaccgt catgccttcc cataacttggt gataggatgg gcaatgaaat aacacgactt 240

acagctgtca aggcatttgc ggtgattgag aattcacctc ttcggattga tctgtcatgt 300

gtcctggacc atgttgtttc tgagctcaca gctttccttc gaaaggccaa cagagccctc 360

aggcaggcaa cattggg * 377

<210> 8108

<211> 418

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-040-Q1-E1-C1

<400> 8108

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aggagtatga caacccaag gccagtgcg ccaagaaga acaaataggc gagggtgagg 120
agaatggcga ggatgatgag gaagaacaag aggagcagga cgggtggagga ggtgacgcg 180
atgatgatga tgacgcgat gatgacaatg aggacgcga cgatgatgac gacgatgtcg 240
ctgctgaaga cgatgaggat ggagtagaag aagaggatga cgaccaggac aacgcgatg 300
atgaggaaga cgatgcgaa gactcgctcc agccccgaa gaagaagaag aagtgaagcc 360
cttcgacgcg gctgctttag gtcacatgca atgagatgtg cctgttcttc actgtgtt 418

<210> 8109
<211> 387
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-040-Q1-E1-C10

<400> 8109

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agtggacaga taagccaacc actggatgtg gttttgaggg atttttgcag tggggtttgt 120
acggtgctat gccgcgctgg gtttgggatt tgaaataaaa cgaagggaga tgtgccacgc 180
tcttaaattgc cagtcttctg ctctaattct gctaaattta tgcattctgt tacattctgc 240
agccaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 300
aaaaaaaaaa aaaaaaaaaa aaaaatttta aaaaaaaaaa aaaaaaaaaa aaaaaaaagg 360
gggcccccaa aaggttccaa ccttaat 387

<210> 8110
<211> 429
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-040-Q1-E1-C11

<400> 8110

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agatgagcag ggacgagcgg gagtgggaga agccaacgga gttcgtgccg gagcggttcc 120
tgccaggcgg cgcgggcgaa gctgtggatg tgaccggcaa ccgggagatc aagatgatgc 180

cgttcggcgt gggccggagg atctgcgccg ggctgggcat cgccatgctc cacctggagt 240
 acttcgtggc caacatgggtg agggagttcg agtggcagga ggtcgccggc gaggaggtgg 300
 acttcgccga gaagaacgag ttcaccgtcg tcatgaagaa gccgctgcgc ccacgcctcg 360
 tgccccgaa ggctgagac aaagtccatc tccatcagcc agtaatcaaa tccgaacaat 420
 agtcactc 429

<210> 8111
 <211> 432
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-040-Q1-E1-C12
 <400> 8111

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 cacgtgggca aggccttggg catggtgata tgtgtgtatt cgtccggtga ctcagtataa 120
 cgatagcctc tgtgcacagt gatgtttcag tttctacatt gatggtttca agcataagaa 180
 ggtttcataa ttaggtgagc cttgtccagg actggtcaca tattatgctt tctgagtttc 240
 atgctactga aagtaattga agctttgcct tcgcatgta agaatggttg catgctgtta 300
 aatagtggag cacatttttt tgataacata gactcaaaaa aggaaaaata gacagagggg 360
 ttagaaccct agacgccacc ttctccacct cgctcctcct ccgggtgccc tgcattgctc 420
 ctccggggcg tt 432

<210> 8112
 <211> 293
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-040-Q1-E1-C2
 <400> 8112

cagctaaacc caagctccag tgcctacaag gtcacatcg acttggtcgt cgaaaaatac 60
 ttcagataga atgaactacc agctaactat gagtggtaaa ggaccaaagg ggaaaggagg 120
 aaaaatagaa ggaagaacgc aggattttga ccaacaatca gtaaagggtt gacacgtgtc 180
 gcacaaatat aaggatgaaa aatctgggac tgaccaacaa tcagtccaca gattttgttt 240

tcagtttagg tcgaattttt tgcccaataa cgggttgaca catgtcgctg aaa 293

<210> 8113
 <211> 408
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-040-Q1-E1-C3

<400> 8113

gggtcgaggc gggatactaa tcgagaggtc tcgagttcaa atctctagct gatagaaaaa 60
 ttggtgtgtt cctgttgatt gggcctgata ggcaggaaag cccatctcag cctcattaat 120
 cttgcatctc gtcgttgccc taccatctgt agccccagtc ccaacgccag gacgatggcg 180
 gccgcgggac ctctatctgt ccgcattctg cggcagactg gcgggggttc gcacagggtta 240
 ctctttctct gggccggccc acacagaagc agccggtggt gaaaaaaaaa aacgcataaa 300
 aagatacatg ttttgaaaac aaactgcatt cgaacttcta aaaaagttta gatctgccgt 360
 ggattatgtt cttatagtgt ttgctgctta atattgggaa agaacgtt 408

<210> 8114
 <211> 462
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-040-Q1-E1-C4

<400> 8114

gggccagaat aacgggtcga cggcgcagga ttgacaaaat gggctattga gctcttacca 60
 tttgatataa cttacaaacc tcggcgagct ataaagtcac aagttttggc tgactttgtc 120
 gctgaatgga ccgaagccga actccctaaa gaggtagggc catactccaa ttggattatg 180
 cacttcgacg gctctaaaat gttagccaga ttgggggctg gcgtcgtatt gacgtccccg 240
 accggggaca cagtccaata cgtacttcag ataatgtaca cggactccaa caatgcagcc 300
 gaatacgagg cccttttaca tgggtctccg atggcaatct ccatgggcat tcaacgccta 360
 gaggtgcgag gggattcaaa cctcgcaata tcccaaataa acggagactt tgacgcaaaa 420
 gattcgaaaa tggcagcata tcgcaacgct gtcctaaaca tg 462

<210> 8115

<211> 315
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: LIB104-040-Q1-E1-C7

 <400> 8115

 cccgggtcga cgggctatgg taatagttaa tttgattctg gtgaaaaaca caaactttgc 60
 gctcacgaga aaaaattcaa taaatctaag aaatgtgctt ttgcgtagat tatttttgct 120
 gtagatcaat agacaaatct cctaatactt cctatttttg taggattttt ggagttccag 180
 aagtattcga aagttacagc ttgctacaga ctgttctgtt tttgacagat tctgcctttc 240
 gtgtgttggt tgcttatttt gatgcatcta tggctagtag gtaagggtat gaaccataga 300
 gaacttgga tacag 315

<210> 8116
 <211> 432
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: LIB104-040-Q1-E1-D11

 <400> 8116

 cacgggactc cctaatttgg taggattttt agagttccag aagtttgcag taattacaga 60
 ttgctacaga ttgttctgtt tttgacaaat tctgttttac gtgtgttggt tgcttatttt 120
 gatgaatcta tggctagtaa aatagtttat aatacataga gaagttggaa tacagtaggt 180
 ttaacaccaa tataaataaa gaaggagttc attacagtac cttaagtagt tctttgtttt 240
 ctttctctaa cggagctcac aagatttcta ttgagttttt gttgtgaagt tttcaagttt 300
 tgggtgaatt ctttttggtg gattatgaaa caaagagtgg caagagccta agcttgggga 360
 tgcccatggc accccaaga taatccaaag acaccaaaaa gtcaaagctt ggggatgccc 420
 cggaaggcat cc 432

<210> 8117
 <211> 405
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: LIB104-040-Q1-E1-D3

<400> 8117

cggatgatgc caatggccct gcgtggaggc gcagttggct tectgcttcc acgtcatcgt 60
tcctgaaggt cgatgattct ccttgtatgt tcttgtatgg atgcctgctt tccttctgtc 120
tcttgtttgc aatgctttgc tcgtcgtgaa gacgaacagt acaaataacg tgttaaaacg 180
tgaagatgaa atcgaataga gggcaccggc gggaattgat ccaccgccgg tgggtgaaaa 240
aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa caaaaaaaaaa aaaaaaaaaa 300
aaaaaaaaaa aaaaaagaaa aaaaaagacg ggaaaaaaga ggagaaaaaa aaaaaaaaag 360
gggggcccc aaagggttct aagttttatt tcccggtaa ggaaa 405

<210> 8118

<211> 431

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-040-Q1-E1-D4

<400> 8118

ccgtcggatc caaggccgcg cacacgtccg cgggcagcaa gaagatcgtg ggcgtgttct 60
accaggccgg cgagtacgcc gacaagaacc ccaacttcgt cggctgtgtt gagggggccc 120
tcggcatacg cgactggctc gagtccaagg ggcatacta cattgtcacc gacgacaagg 180
aggggttgaa cagcgagctg gagaagcaca ttgaagacat gcatgttctg ataaccaccc 240
cattccaccc agcctatgtt actgcagaga ggatcaagaa ggcaaagaac ctcgagctgc 300
ttctcacagc tgggattggc tcagaccata ttgatttgcc agctgtctgt gctgcaggct 360
tgacagtggc tgaggttact gggagtaaca ctgtctctgt ggcagaagat gagctcatgc 420
gcatcttgat t 431

<210> 8119

<211> 335

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-040-Q1-E1-D5

<400> 8119

cggggaagat cagccccggc cgggaggaga cccccgccgc gtcggtagat gagggaggaa 60

ggcagtggcg cagtcattggt ttagatatga aagtttttggga caccgagcgg aactcagtgg 120
agagcttata tatgaaaact agcgagagag agagagagag agagagagaa gacgatattt 180
atgcaattag aagagaacta tagacattgt ttttccccta agctcaataa ggtctgtgtc 240
ctttgtggac tgcgttttctt ctttgttagag acagaacata atataatacc gaggattgca 300
gtcaaatgga aattaatttc aggttttgaa cttga 335

<210> 8120
<211> 274
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-040-Q1-E1-D9

<400> 8120

acggggcgac atgagcatcc gagtggcagt gcttcgcact ttgagcagta gggataacttg 60
atcatagga aagggaagg agatgagttc gtgcttgcatt gatttttagg gaaagagcgt 120
gtgtattgta cttctatgtg catgaagtgt tttgtttggg ccaagcccaa ataataaaaa 180
taaaacacta tctctaaaac tattcaaacc cttttgcatt tattatcttc tgcaaaaaaa 240
ggggaaacaa acaatcgacg agaggggcga gctc 274

<210> 8121
<211> 265
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-040-Q1-E1-E1

<400> 8121

ggtccacggc gatcttgtgg ggcaattagc agacctgggc gaagcagatt acacagccgt 60
caacagagct ctgtgtgcaa tgtgccagta caatgccagc ggcagctacg tgggtctcgga 120
cctgtcgaac gatccagaca tcaggaaggc taccatggag gacatagcgc atcaaaccg 180
ccagcaatgg tcagctcacc gtccgacgtg atcaacctgt cgtactcagt acaaccagtg 240
gttttccatt tgggggttcg tgaag 265

<210> 8122
<211> 454
<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-040-Q1-E1-E10

<400> 8122

taggcgtcga gaattcaagg gtcgacgggg gaaccgctac atcgcgccgc cgaacctggc 60
ggcgaagctg atcacgaagc ggctgtacgc ggaggaggcg gagtggaaga actgggtgtg 120
gcactcggag ggggacctga tgctcaacga cgccgtcttc gccgacagcg gcggccccaa 180
ccagaggaag ttcgagaagg atgacctcat cccgcccaag ccgggatcgt acgtcaccag 240
gctcacgcgc ttcgcgggct gcttgccgtg caagcccggc aagccctgct aaaccttggt 300
ggccccgccg gccggccgga gccgatccct tccgaatctt caattctata gctttgttca 360
attcttttac tcaaagattc gtgtatgtaa tactaggaca tttgagtagt ctaccgggtt 420
cagatcagaa ggcctgtag gttgttcttg tacg 454

<210> 8123

<211> 181

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-040-Q1-E1-E3

<400> 8123

acggctacat gaaagtctga tcgattcgaa gcaggttgag ttcagttcag ctagaggaag 60
acgaacgcgt ttcgatcagt ccgatctcct gctcctttta catgatgatt actattatct 120
taatcttagt gcatgtgtat gtaatatgca ccatgaattg gtagtgcaaa aaaaagaaaa 180
g 181

<210> 8124

<211> 355

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-040-Q1-E1-E4

<400> 8124

tcccttcaat tatatttact ttacatataa gttttgtctt aagtcaaact tcgtaaagtt 60
tgatcacatt agaggaaaaa atatcaatat ttatactatc aatcaatatc attgcatcac 120

ggaattaatt ttcattattgt atatcttttc tattatagat gttgatatat ctttaataata 180
aaactgggtca aaattttatta aatttgactt aaaacaaatt tatatgcgga gtaaaagaga 240
aacaggggga ggaagcggcg ttctgtctcc aaggcgcac tattcaaaaa cttctgaatt 300
tttgtgtggt gaaagatgct ttgggtccct gccaaattta tcttggttgg acatt 355

<210> 8125
<211> 447
<212> DNA
<213> Triticum aestivum
<223> Clone ID: LIB104-040-Q1-E1-E6
<400> 8125

cgggggagggc gacggtgcac ttgtgacctc aaccaggcga gcactcctcc tctcgccgt 60
cgtcgtctcc gatccaccgc cgcttccgca gccatggtga acgttccgaa gaccaagaag 120
acctactgca agaacaagga gtgcaagaag cacacctc acaaggttac ccagtacaag 180
aaaggcaagg acagcctttc tgctcagggg aagcgtcgtt atgaccgcaa gcagtctgga 240
tatggtggcc agacaaagcc tgttttccac aagaaggcca agacaacaaa gaagattgtg 300
ctgaagctgc agtgccagag ctgcaagcat tactcacagc gtgccatcaa gaggtgcaag 360
cactttgaaa tcggtggaga caagaagggc aagggaacat ctctcttcta atctgatgat 420
aacaacgtta agtttaaaaa gttgtgc 447

<210> 8126
<211> 104
<212> DNA
<213> Triticum aestivum
<223> Clone ID: LIB104-040-Q1-E1-E7
<400> 8126

gctatgacac actgacctt cccatatttg catacatagc tttaaaatct gaaatatttt 60
acaacatcag gatgttcttt gattcggtaa cattcttctc gaat 104

<210> 8127
<211> 406
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-040-Q1-E1-E9

<400> 8127

acggggctgg ttaaagagga agccgaggca ccacttttca acggtgaacc cacccacagc 60
tcattctgca taaccaaca gaccaagcaa cacaaatccg attcattccc ctccaagct 120
ccaatccgc gaattctcaa gcgtggctgt catcatcatc acccagcatg atccgtttca 180
tcctgttgca gaatcggcag gggaagacgc ggctggccaa gtactacgtc ccgctcgagg 240
actcagagaa gcacaagggt gagtatgagg tgcacgggt ggctgtcaac agggacccca 300
agttcactaa ctctgttgag ttccgtacgc acaaagttat ctacaggaga tatgcaagac 360
tatttttctc aatatgtgta gatatcacgg ataaagattt ggtata 406

<210> 8128

<211> 396

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-040-Q1-E1-F10

<400> 8128

cgggctccta ttatcttttt gaattctcca aactacacta tatcggagaa gtttgtgctt 60
attaaggatt atattgatgg gttgcctttt actactacac atgatgggtt tgatgaatat 120
aatatgtatg tgcttgctgc tctacttgc aattattatg agagaggaac tatactctcca 180
cctctctatg tttccaatac gataaaattg caagaaactg tttatactat gcattggcct 240
ttactaagtg tgcataaatt gttcttttat gacatgccga tgcataaggaa gagagttaga 300
ctctgttggt acatgatata tgttacgttg tgctccccac taaattacaa atcactgtta 360
attaaaattg gctttgatat accttgaat ccgggt 396

<210> 8129

<211> 296

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-040-Q1-E1-F12

<400> 8129

cgggcaggtt gcatagctga ttggcaggat agtgaagtgg ctgaagcccg gtgggcatat 60

tttcatcagg gagtctgtgct tccaccagtc tggggattcc aagaggaaag tgaacccgac 120
gcactaccg gagccaaggt tttacaccaa ggtgtttaag gaatgccact cctatgacca 180
acatgggaat tcctttgagc tttctctggt aacttccaag tgcattggag cttacgtgaa 240
gagcaagaag atacagaacc agatatgttg gccatgggag aaagtcaagt gcacag 296

<210> 8130
<211> 282
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-040-Q1-E1-F3

<400> 8130

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aatgatattg tttgagacca tgcgttgcaa ggtattgaga gactatagtt acagcgagtt 120
gcggcagaca ggggagagag aactgcatcc gattggtttg ttaggacata gataaggaca 180
tcatcagtat atgctctgaa gattaggtaa cttagcacag actttgcagt ctacttatat 240
caggttgaaa ccacgtcttc ctgagattca ccgccagtc tt 282

<210> 8131
<211> 394
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-040-Q1-E1-F4

<400> 8131

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aaattcagat ttcattcatc aagtggttcc gccacaaaat cgctgaaccg caattcaaatt 180
gttgcattgct tgatgagccc actctgcaca attagctgga gatgcgtgcg tgtgtgcagc 240
ttacaagttg gaaacacagt cacagaccaa agctctggtg tttccccacc tgctgggtca 300
gctcagacac aatttggtca ctggactaga gggaaacaga caatgcattg agctcacaca 360
aaccaaaact ttggcacaag ttcattgatc actg 394

<210> 8132

<211> 304
 <212> DNA
 <213> Triticum aestivum

 <223> unsure at all n locations
 <223> Clone ID: LIB104-040-Q1-E1-G10

 <400> 8132

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 ggatagtcga attggtttna acaccttccc gttgtgctca atgnncaacc cttcctttgg 120
 gtattgtntn ntagtaaaca ntnntttgca tgctgcccag ttttgttgct nncgcaaacg 180
 atagggaact agttgcactt gaacacagct caattctagg gttnttctag tgcattgggt 240
 tccttnngat aatacgttgg ctttttgctt tcgacatgta tttcgacagc aatttcaagt 300
 acac 304

<210> 8133
 <211> 141
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: LIB104-040-Q1-E1-G11

 <400> 8133

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 tttggaataa ggagtggaaa gatcctaacc ttggggatgg ccattgccct caactggaac 120
 ttctcccgt tcacgaactc t 141

<210> 8134
 <211> 453
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: LIB104-040-Q1-E1-G12

 <400> 8134

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 tattcctgct tagtacaagt gaaggctaga aaaagactgg gaagcgacca actagagagc 120
 gacaacagac atgaacatgc attaaaatta accaactg agtgcaagca tgagtaggat 180
 ataatccacc atgaacataa atatcgcgga ggctacgttg attttgtttc aactacatgt 240

gtgaacatgt gccaaagtcaa gtcactcgaa tcattcaaag gaggatacca ccctatcata 300
ccacatcaca actatthtttaa tagcatgttg gcacgcaagg taaaccatta taaactccta 360
gcaaattaag catgacatta gcaactataa tctctaattg tcattgcaaa catgtttcat 420
tcataatagg ctgaatcagg aacgatgaac taa 453

<210> 8135
<211> 375
<212> DNA
<213> Triticum aestivum
<223> unsure at all n locations
<223> Clone ID: LIB104-040-Q1-E1-G3

<400> 8135
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agaccaaggc cagggaagg ctcatcgcca aggaggctgc gcagaggatg aactaagcct 120
agccttatat gtgagagcat atgccatgta gtttcccttt cagtgtgtcc tgattttgac 180
gaggaactcg aaccctttta gcagcagtgt ggaatcgat tgtggttttc tgattctctg 240
ttcccttctc cagacttatg caaagatcag atgaggttta cccatgtttg gattctatat 300
agctttatgt cttttgtcga gtcaaaaaaa aaataaaaaa naaaaaaaaa aaaaaaaaaa 360
aaaagcggcc gctct 375

<210> 8136
<211> 207
<212> DNA
<213> Triticum aestivum
<223> Clone ID: LIB104-040-Q1-E1-G5

<400> 8136
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agaagaagat gaagatgaag aagaagaaga tgaagaataa gaagaagaag aagatgaaga 120
tgacgaagaa gaagaggaag attaagatta ggatgtataa gaagatgaag aagaagaata 180
tgaagcataa tatgacgatg aagatga 207

<210> 8137

<211> 411
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: LIB104-040-Q1-E1-G6

 <400> 8137

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 cagggagaat agttccgtta agggttcctt tccctgggta agcatgccct aaagtgcattg 120
 tccggactgc gataggaaac acaggaaaaa acatctgggg gcagatatgg aaaataaata 180
 aaaatcatct ttttttcgcc gaccaaata tcccttaaga acgctagctt ttggcttcac 240
 ccagtctgag gtacacatcc ggctgacccg gcagtaacaa tcgcagaggt gctcccctta 300
 tgccctagcc gaattaacag gaacgtaggg cataaatata agagccaggc aaccagctt 360
 ggccaaaact taagtcatat cgatgcatat aatggcgaaa aaaggtagat g 411

<210> 8138
 <211> 257
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: LIB104-040-Q1-E1-G7

 <400> 8138

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 ccatgggctc ctgttcaacc accctccac gggctactgt tcatccagct ctccaccggc 120
 aactgttcaa cccgccctcc accggtact gttcaacctt ccctgcacaa tctcttcgtg 180
 aataccatt tctctcctta gggttgtttt ctctcaatat ccgatacaca cacacatata 240
 cagatagaga gatagac 257

<210> 8139
 <211> 228
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: LIB104-040-Q1-E1-G8

 <400> 8139

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gatggtggaa aacttactcc acagcatgca tttcaacaag atttccagta gcacgtgtta 120
 aggagtcgct ccagcgtgat actgtggatg tcttcccgtg cacaatctct tcgtgaaaca 180
 ctagatctcc tttgagcttt ctctggctgc ttcgacgtgc attggagc 228

<210> 8140
 <211> 283
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-040-Q1-E1-H1

<400> 8140

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 tgaggccata tatataggta acaagtagtg gcagaggcca gtattttgcc aacgccatat 120
 gtacaaatgt gttccgtttt ggctccacat gatttcccgt atgttcatat gaaatttacc 180
 gcagtgttct tttaaacatc agtggtgata cttgaaaaaa aacaaaaaaa aaaaaaagaa 240
 aaaaacagcc gacctaagaa gaatccaaca ccgacgtccc cat 283

<210> 8141
 <211> 334
 <212> DNA
 <213> Triticum aestivum

<223> unsure at all n locations
 <223> Clone ID: LIB104-040-Q1-E1-H12

<400> 8141

tccacggggg aagaagaang aggcggaggg atggggcgcg ggaagatcga aatcaagagg 60
 atcgaaaacc agagcaaccg ccaggtgacc ttctcaaacc gcaagaacgg gatcctcaag 120
 aaggccaggg aaatcaccgt gctctgcgac gccgaggtcg gcgtcgtcgt cttctccagc 180
 gccggcaagc tctacgactt ctgtccccc aggacctcgc tatcaagaat cttggagaag 240
 taccagacca actccgggaa gatactgtgg gatgagaaac acaagagcct cagtgcggag 300
 attgatcgaa tcangaaaga gaatgataac atgc 334

<210> 8142
 <211> 361
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-040-Q1-E1-H2

<400> 8142

tccacggcga ggttgagaag cagattggca ggatagtga gttggtgaag cccggtgggc 60
atattttcat cagggagtcc tgcttccacc agtctgggga ttccaagagg aaagtgaacc 120
cgacgcacta ccgggagcca aggttttaca ccaaggtgtt taaggaatgc cactcctatg 180
accaagatgg gaattccttt gagctttctc tggtaacttc caagtgcatt ggagcttatg 240
tgaagagcaa gaagaaccag aaccagatat gttggctatg ggagaaggtc aagtgcacag 300
aagacaaagg ctttcagaga ttcctggaca atgtgcagta caaatccact ggaatcctgc 360
g 361

<210> 8143

<211> 340

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-040-Q1-E1-H3

<400> 8143

attatgacat ttacatagcc attccgagat atattacat gcaactttcc accgttcggt 60
ttattatgac acgcaccatc attgtcatat tgcttttgca tgatcatgta gttgacatcg 120
tatttgtggc aaagccacct tcataattct tccatacatg tcactcttga ttcattgcat 180
attctggtac accgccggag gcattcatat agagtcatat tttgttctaa gtaacgagtt 240
gtaatattga gttgtaagta aataaaagtt tgatgatctt cagtattaga gcaatgtccc 300
aagtgaggaa aggatgatgg agactattat tccccacaa 340

<210> 8144

<211> 455

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-040-Q1-E1-H9

<400> 8144

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gagatggctg ttgtgtggat agagaaccag ctccgtgaaa aaaaaacaaa ggagctgata 120

ttgcaatatg ctaaccagct gtgtgagcgt ctaccgagcc ccaatggaga gtcaacagtc 180
 agctgccatg agatgtcaaa gatgccgaat cttgctttca ccatcgcaaa taagactttc 240
 gtgctaacac cagagcagta cgttgtgaaa ctggagcaat cagggcaaac cgtctgcatc 300
 agtgggttca tggcattcga cataccgccc ccacgtggtc ctctctggat tctcggggat 360
 gtcttcatgg gcacttacca caccgtgttc gacttcggca aagacagaat cgggttcgca 420
 gaatcagctt gaggagtcca gagcactatg aaatt 455

<210> 8145
 <211> 406
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-041-Q1-E1-A11

<400> 8145

gggtcgacgg gacgcgcaag aggacatact gcaagatggg gcttgattac tttcctggga 60
 acaccgagga tgtcagacgg ttgccacgca aacacgtcga tgttcgcccg caggaaagca 120
 acgagcgcgc tttcctatct agggtcgaga gtggcactga tggatgaagg accaccagtg 180
 ccgtctctct tggcggacac cttcttgggc tctgggtggag ctgccattgt cttcttacac 240
 ttgccgggtg agcttgatgg tgcgtctctg acggtagcgc agcactccga agaggtgcgc 300
 ttgccggagt gggcatcaga actcttgccg gacttggcct tcttcttccc cccggaagct 360
 tcaacggcaa gtgacttgcg atctgtttcg ggtgctgctt cccggg 406

<210> 8146
 <211> 402
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-041-Q1-E1-A2

<400> 8146

gtcgacgggc tgcaggctgg tgtacgggat gatacgccgc tttgtctcgg ccacgggggtg 60
 gccggtcagc cgcattcagc gctagtagtg taggctctag tgcctcctcc tcgaattgag 120
 gtaacaacct gcgctttggg taactcttgg ttgggcgctt gactctgtat tgctcgggtg 180
 ccaggacctc agtccatcta tccagttagca gatcttgatc agcttgaagt tgttggtgct 240

ttttcttttag gcatttttgca gtggctataa gccggcgctt gaagcgctgc tgctcgacgg 300
gacctcagg cagcaggaat tcttcgtccc caaggctcac ctcacttttg gagagggcca 360
tgtaattaac atcctccgag tctcatacat tgcctgtttt tc 402

<210> 8147
<211> 388
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-041-Q1-E1-A3

<400> 8147

gacgaaacc aactatctac ataattaggt actgaacatt aggagtagag atagatctga 60
gtcgcgccac cgcacctttc tgcctcgacg ccggtgactc tcacgtactg gcggcgccgt 120
gacgctggaa agtttagcga actccacaca tccaaacaga cgttgatcca tcgacccgaa 180
ccaagaatca acaccgagag ctggcgaga tgatgtcact gaagccctct gcacccgacg 240
ccgccgaagg ctgcaggatt gcctcaacct ctcgctccgc gctgacggcg aggtcaacac 300
cattgcaagt aattaatatt ttgggaaact tcgttagaat ttggtctgtg tattcgttgt 360
atagccactt gtccagtact ggggattc 388

<210> 8148
<211> 426
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-041-Q1-E1-A7

<400> 8148

gcgggtcgac gggggtcact agatagtatc attgtacctt ctctcttttt ctctcatttt 60
tttgggcctt ctctttttta tttccttctt cttttttcct cacttgggac aatgctctag 120
aaaatgatga tcatcacatt tctattttatt tacaactcaa tgattacaac tcgatactag 180
aacaagtat gactctatat gaatgcctcc ggtggtgtac cgagatatgc aatgaaccaa 240
gagtgacatg tatgaaagga ttatgaatgg tggctttgcc acaaatacta tgtcaactac 300
atgatcatgc aaagaaatat gacaatgatg aacgtgtcat gataaatgga acggtggaaa 360
gttgcacggc aatatatctc ggaatggcta tgggaatgcc ataataggta agtaagggtg 420

ctgttt

426

<210> 8149
<211> 392
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-041-Q1-E1-B1

<400> 8149

ggtcgacggg gaacgtgctc accatcttcg aggaggaagg cgggcggccg gacgccatca 60
tgatcctgac ggtgaagcgc gacaacatct gcagcttcat ctcgagagacc aaccccgggc 120
acgtgcggtc gtgggagacc aaggacagcc agctgacgat ggtggcggac gacctgaagc 180
cgcgggcggt gctgacgtgc ccggagaaga agttgatcca gcaggtggtg ttcgccagct 240
acgggaaccc gctggggatc tgcggcaact acacggtggg caaatgccac acgccaagg 300
ccaaggagat tgtggagaag gcgtgcgtgg ggaagaggag ctgcgtgctg gccgtgtcgc 360
acgaggtgta cggcggggac ctcaactgcc cg 392

<210> 8150
<211> 401
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-041-Q1-E1-B11

<400> 8150

cgggtcgacg tcattcatcg tggccccgta ggggcacacg aagcccttga acgccgtgca 60
gcaccgccgc tgcgggatcg cctgtcccaa gcagctgcc tgtaccttgc ccatctgctt 120
caggtgcccc aactgcaccg ggcacagccc tgcttccatg aagcccccca gtttgcggcc 180
gggcgacggc gatgcctccg ggggcgaggc taaaagggcc gcatttgata tgatgagtgg 240
tttgtccgac gcggcggagc cggcggcgac aatggacagc acgacgcagg acagaaggac 300
ggcgggtggc cgggtggaac ccatctatct ctctctcttc cacggcgccg gagcaagacc 360
gaactctgta tcttcgtggg aacgaagctg aggtgaccgg g 401

<210> 8151
<211> 420

<212> DNA
 <213> Triticum aestivum

 <223> Clone ID: LIB104-041-Q1-E1-B5

 <400> 8151

 gggtcgacgg gtcccgtgt tcaggctact ggcctccga caacatcgac accgaggacc 60
 tcgatggctc cggcgaaaca ggagaagatg agtggcagat tctctgaatg aaagggaagt 120
 ttaacttcag ttgttcggtt aaaccttcac atgaccactc attgggttaa tgtcccgctg 180
 tgtgaagtaa agacttcaaa aacctcgtgt gaaatccagg gtttccagtt ctacggaaca 240
 agcgggtgtg ctgcttggtc cgcgtagctg cgagtcgga aaaggtagga accgttacgc 300
 tgatcatcgg atcggcacca agttgggtcg atgggaaatt cctctgtacc ataccgtacg 360
 cgctgttggt ggtgactgca aaatgtatct attgattggt taaaaacttt cccttggtat 420

<210> 8152
 <211> 418
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: LIB104-041-Q1-E1-B8

 <400> 8152

ggtctagaac tcgcgggtcg acgggtatct gaagctagag tcttattcac cacatgatat 60
 gtgttttgcc tggagcatct tgtatgattt gagtcttga ttttagttt accacaatca 120
 tccttgctgt acacccttt tggagagaca cacatgaatc ggaatttatt agaatactct 180
 atgtgcttga cttatatctt ttgagctaga taatttttct ctagtgcttc acttatatct 240
 ttttagagca cgatgggtgt ttattataga aatcattgat ttctcatgct tcacttatat 300
 tactttgaga gtctttttaga acagcatggt aatttgcttt ggctacaaaa ttagtcttaa 360
 tatgataggc atccaagatg ggtataataa aaactatcat aaaaagtgca atgaatac 418

<210> 8153
 <211> 415
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: LIB104-041-Q1-E1-B9

 <400> 8153

cgggtcgacg ggaaacacca ttatctatgg tttaaacttt cttttctcac aacccaacga 60
 cgaggacccc ttgaatcatg aagccgcggc cgctctccgg gacaaccgc agaagttcca 120
 gagaaacgtt cagatggcaa tgcggggagg ctatgtcgat aacacccatt tccaagggtg 180
 caagtaaggc ggccggggcg gctgctatg tgcttgcttc tggcttgccg ccacctaccc 240
 taccctagcc ctgaatgcc aaccattgca caatctgaag aaatgcgggc ggcataccca 300
 ggaaatgtat ctatcatact tgtttgctgc aagaagatgt gactgctatt gtgcttgctt 360
 ggtggatgtt ctggaattgt cgtgtaacat gaagaagaaa tggggtgacg ttatg 415

<210> 8154
 <211> 399
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-041-Q1-E1-C11
 <400> 8154

ctgcggggtc gatgggatgc tctaggttga atcggaataa atttttgtaa tggggtagt 60
 aggggtgagag aggagacatg gataattggt accgctgctg cttactttgg gtctgcgggt 120
 gttggagggtg gttgagactg ctggtattag tctgttgctc gagctgtaga gaactctttg 180
 ctgctgctgt tacttccttc tgatgtttta aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 240
 aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aatttaaaaa 300
 aaaaaaaaaa aaaaaaaaaa aaaagggggc cccccaagg gttcaagctt aatttccct 360
 tcaaggcaat ttaaaacccc ttcaaagggt cccccaat 399

<210> 8155
 <211> 433
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-041-Q1-E1-C4
 <400> 8155

tcatgggtcg atgggatacc tcatagtga tctactaaa cctattgatc attaaacttag 60
 attttcccaa gattttggct gctattccga attactctat tattccgaag ccaatgaaaa 120
 gtaagtagaa cctacaaaaa tggggttttc tattgatgcc ttgaataaca tatagcttac 180

ctatagacaa aaaataaaaa aaaaaaagta attatgtttc ggaaccaggc aaaaccagat 240
 tgctgtgcc taggaaggat agctatacta attcgggtata ctcaaaatac accttttgga 300
 caaaattgac aatctcaciaa ggatgaaata tcagtaattt tctatttact ggtcgatccc 360
 atctttttacg gaatcaattc ctttttttga atgtacaaaa attttgggag ttcagcatgt 420
 ctggaaacac ggg 433

<210> 8156
 <211> 420
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-041-Q1-E1-D1

<400> 8156

gtcgacgggc ataacaaact gacatctgat ggtgccatct cagtgaatga tgcacagaca 60
 gctaccgtca aggccgaaga aagcaacgca aacaaaacta aaggctcctgt ggaggagagc 120
 agttgattta tctcctgcc tttactagtt tggagcagct atgatttgat gctcgtcagg 180
 agttgagaac ggaaaaagat gccgattcga gttcaggcgt gggctgctgc tgcttcagtt 240
 gtgaacatca tagtccttat ttcgcctcca cttaggttat agtttcaata tcatagttcc 300
 aaaattcttg ttcgtgggtc cttgcttccg tgttctttct tgttttcttc tctttatatt 360
 tttacttggt ttgtgtcgtg aatgctgtta agtttttagt gcctttctca ctccttttgg 420

<210> 8157
 <211> 443
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-041-Q1-E1-D10

<400> 8157

ggtctagaac tcgcgggtcg acgggggtgg tcaaagaaac tggatgcatg ttttcattat 60
 ttctggtgtt cgttgtactg ccatgattgc agatgaatag atatgaagtt ttctcgcaaa 120
 aaagaagtaa gaggtttttc aatgttatcg ctgtaacgca agaataagag tcagttcttt 180
 tgctagctcc tagaataaac tgaaacaagt tgtcccttac ccaacttatt ctaaaaatcc 240
 aaccaaattt atcttttttag aagcctacta attaaagact taactagtag gattttaaaa 300

tttattttttg gttaggttcc tagaataaac tgggtagggg tagcttattt tacaagcccg 360
 aaaaggccac aaaaagaata gccctaagg cacgttgctt tgattacaac tataacataa 420
 ttcaagtaat acactttgca aag 443

<210> 8158
 <211> 444
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-041-Q1-E1-D11
 <400> 8158

ctcgcgggtc gacgggttgc cagaacgggt ttcgcataag acgtgtttgg aagtcctagg 60
 ccaaacgagt atttcacgga aagccgacaa ggaattccgt taataaccga ccgttttgat 120
 tctttagaac aactcgatga atttagtaga tccttttagg aggccctcaa tgaccataga 180
 tcgaacctat cctattttta cagtgcgatg gctggctatt cacggactag ctgtacctac 240
 tgtttttttc ttgggatcaa tatcagcaat gcagttcatc caacgataaa ccaaattcca 300
 actatagaac tatgacacaa tcaaaccgga atgaacaaaa tgttgaattg aatcgtagca 360
 gtctatactg gggtttatta ctcatTTTTG tacttgctgt tttattttcc aattacttct 420
 tcaattgaga aaaagaaaga gact 444

<210> 8159
 <211> 429
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-041-Q1-E1-D3
 <400> 8159

gtcgatgggc atccctaaac tgagtcgtaa tattcgcgac atggaaaaca ctctcctcca 60
 aattctacaa tgctttgatg aagggtgatg ctgatcaaaa ccttttcgag aagggttaagg 120
 agctagcaaa gcgcattgat gaggatgggt gcagactagg catctcaaca attgattcgc 180
 tgggtgaagct ctatgtgggc gctggagagg tggataaagc tgaatctata ctgcacaagc 240
 tgtctaaaag taacaagatg aagcctcagt acagctcata cctcatgttg cttgatactt 300
 attcaaagaa aggggacatc cacaattcag agaaggtggt tgaccagttg cggcagatgg 360

gttataatgg gagggtagg cagtaccagt tgctgctaaa tgcataatgtg caatcaaaga 420
cacccgttt 429

<210> 8160
<211> 77
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-041-Q1-E1-D8

<400> 8160

gacgggtaat ttcataact aacggagctt atgagttttc tgctaagttt tgtgttgga 60
agttttcacg tggtgga 77

<210> 8161
<211> 394
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-041-Q1-E1-E1

<400> 8161

ggtcgatggg gatcacgata atgagtctta ctatgcctcc agttgatgag aaaaagaagg 60
tagttgaaga tggtgacaag gatcgaagat acgcaattga tgcataccatt gttcgtatta 120
tgaagagccg gaaagtctta ggccaccaga cactagtaat ggagtgtgtg gagcaacttg 180
gtcgcattgtt caagcccgac ttcaaagcaa ttaagaagcg cattgaggat cttataacca 240
gggattacct ggagaggagac aaggagaacc cgaacgtcta ccgatacttg gcttgatcat 300
cggttctcca tgctgggttc ggtaacatct ggcgtgtatg cctaccaagc tactgctatt 360
taaggatgct atattttgtg ccatggcaca ccac 394

<210> 8162
<211> 421
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-041-Q1-E1-E11

<400> 8162

gtgaatcgga atagttgtat cgcgacctga atgaatgaaa taaacgaaat aacgctcttg 60

ttcaaccgtc aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 120
 aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 180
 aaaaaagggg ccgccccaaa ggatcaaacc taacttaccg gggaaggaaa attaaaaacc 240
 cttcaaaagg gccacccaaa ttaaattaaa gggccgtcgt ttaaaaaagt ccgaacggga 300
 aaaacccggg ggtaacccaa ttaaaccccc ttgaaaaaaa accccttttc ccaagggggg 360
 gaaaaaccaa aaaggcccca aacaattccc cttccaaaaa tttgccaaac cgaaaaggga 420
 a 421

<210> 8163
 <211> 406
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-041-Q1-E1-E4
 <400> 8163

gtcgatgggc tgcggtatat cgactcgtct aatccggtgg tctccgcggg ccatttggtg 60
 gccgaaatgg ccaaaaccac tcccgctgcc gcgtcgggct cgccggcggc taaacgccgg 120
 cagccgactt tgactttgac ccccggtggg ccttggttga ctcccctgag tcaatgacag 180
 gtggggccca gccctgttaa ttaaacagga ttagttttta ttaaatttta attaaaataa 240
 tcaccctgac atgcgggacc cactgtcagg tttgaccag acctgttcag ttgaccactg 300
 acgtcacact gacgtcaggc tgacgcagta attgattttc tggattttaa ttaaatcagg 360
 aaattccaga atattattta aacttcaaaa attcataact tttaat 406

<210> 8164
 <211> 338
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-041-Q1-E1-F1
 <400> 8164

ggggccaggg gaagatgaag cttatgggga cgaccgcgct gattacagga aatctgaacc 60
 cactacctac atcaatgctc ctttggttaag ggttcttgcc tacttcgttg gcaacccaaa 120
 cccaggccat atcagacact gagcataagc actttgccat gtagacagag aagagtgaca 180

gaagctataa atacgtacac aggaagcaaa taggtttgtg attggatggc actacatggt 240
cataggagtg gattgcagag catgtgttct accaataatg acagcttatc tttcatgatt 300
tttcttttgt ttgggtttgc actgaatttt gttttgtg 338

<210> 8165
<211> 450
<212> DNA
<213> Triticum aestivum
<223> Clone ID: LIB104-041-Q1-E1-F12
<400> 8165

ggtcctaggt tcccgggtcg acgggggaac gatgagatca tggctagggg aacttttgcc 60
aacattcgta ttgtgaacaa gttcttgaag ggagagggtg gcccccaaac catccatgta 120
ccatcagggg agaagcttgc tgtttttgat gctgctatga gatacaagaa cgaagggcat 180
gacactatca tcctggctgg tgctgagtat ggcagtggaa gctcaaggga ttgggctgcg 240
aagggtccaa tgcttcaggg agtgaaggct gtgatagcca agagttttga gaggattcac 300
cgtagcaatc tcgctggaat gggcatcgtc cctctatgct tcaaagctgg ggaggatgcc 360
gacactcttg gcttaacagg ccatgagcgc tacaccatcc agcttccgac tgatgtgaat 420
gaaatcaagc ctggccaaga tgttacggtc 450

<210> 8166
<211> 404
<212> DNA
<213> Triticum aestivum
<223> Clone ID: LIB104-041-Q1-E1-F2
<400> 8166

tcatgggtcg acgggttcct tgaaaggaaa tgcttggatg agggctctga ttgcgacact 60
atltcaagga tatgccagac gtacgacttg gacaagggtg atgtcctgaa gtacagggat 120
ctggagtggc ctagctcagc ttctcgact acctagggat tctttgcca ccgatgtctg 180
tacggtaaaa caactctact ggatgataac tgctggaggg tgatcaggct ggatcttttt 240
tgcttgggac atggacattt aaccggcatg gcggatcatg cggtgcccgc attaactctgc 300
cgctagctta gaaagctgag aaacgaagag gacctctgaa accgtagcaa ccccatatgg 360

tgacccccgt tgctctgtac ccagagtgtgta aatacagttt ggtg

404

<210> 8167

<211> 141

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-041-Q1-E1-G1

<400> 8167

cgggcattca aaactcgcaa tatcaaacat aaatggagac tttgatgcca atgatccgaa 60

aatggcggcc tatctcaatg ccgtccttaa aatgtcagct cggttcgtgg ggctggataa 120

ggttggaccc cttagagggg g 141

<210> 8168

<211> 387

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-041-Q1-E1-G11

<400> 8168

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caggttcatg ggcagcagct ctgggagcac aacaacaatg tactgggcta ggaacgtcag 120

ccggaagtgc agccgccgat gcacggcggc aatggatttt tccaccccct tgatgctgct 180

ggtgaacgca cacttcacat aggggtaccct cctgagtcca tgagtaactc atgcatgaca 240

actttcatgc ccccggtggt gccttgattg aagactgcga ataaagtgcg acgaataagt 300

atatacgtgg caccgggccg gccgcataata tgcattgata ctacttcgag tgatggatta 360

ttccagtcaa gatcctcaat tattttg 387

<210> 8169

<211> 395

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-041-Q1-E1-G4

<400> 8169

gtcgatgggc ttcccagaaa tgagtcgtat tagcgtcagg ttggcgggga ctaaagctgg 60

tagactgttt gaatggaagg ctctgtgctg caacaaaacc ttgccctagt agctatatgc 120
aatgcttagc actgaactgc tgtgacaatg ttatgttacc gtaacatgtg tgggctatgt 180
ctgcccattg tgttgtgcta ctactgtaaa ccaattgcgt ggttgcgtta gtttgccttg 240
accattgctt gcatgcagct acaagttgct aatgaatacc ctactctaac ctccttttgt 300
gagcgtggtg caggacattc tgccgataaa aaaaaaaaaa aaaaaaaaaa aaaaagaaaa 360
agaaaaaaga gaaaaaaaac ccgaagaaaa aagga 395

<210> 8170
<211> 397
<212> DNA
<213> Triticum aestivum
<223> Clone ID: LIB104-041-Q1-E1-G9
<400> 8170

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acatgaaagt gaaaatgcta ggcaacacgc cttccctaag ctatgtgtcg tgccggacgg 120
gccgtggagt actcccaatt cccgggctg tgggggggag tgcgacgcga acgcggcaag 180
ccttttcctt ttactagcaa tgtgctcgtg tgttgcggcg gatccaaagt agtagaatag 240
taatacttgt tcacaaactt gaaagaaatc actcttgttt tgatatactc ctaatatatt 300
actccctcta ttctaaaaa aaatgtcttt ttagagatct caaatggact atcacatacg 360
gtttatatgg acatatattg aagtgtggat tcactca 397

<210> 8171
<211> 404
<212> DNA
<213> Triticum aestivum
<223> Clone ID: LIB104-041-Q1-E1-H1
<400> 8171

attctagggc cgacgggatg ttcttaaaaa taagggtgaa tcttctagta agaaaaatgt 60
ggatctcaaa tcaataagtg ttcatcccaa ttgtctctct atcattaagg aaccttttgc 120
tacaaatgaa tttctcaatt tcttgccctag gagtttaatc attgctaaaa agaaagaaac 180
tcctaaaatt tataagtgtc ctgttgaaga atttaatgcc aaagatggca ctacttagat 240

ctgtttctcgc ttttatgcct agctaggggc gttaaagtat agcgctagtt gggaggcaac 300
 ccaattttat ttttgtttct tgctttttgc ttctgttttag taataaatat ttcactacc 360
 ttctgttttag atgtggtttt atgtcctaataa taatgtttgt gccca 404

<210> 8172
 <211> 133
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-041-Q1-E1-H12
 <400> 8172

gggatggggc ggggcaagat cgaaatccag aggattgaga accagagcat cactgatgtga 60
 actttctcaa acgcatatac gggatcctca ttaaggcaag ggagatcaat cgtgcacggc 120
 gacactgaag tcg 133

<210> 8173
 <211> 406
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-041-Q1-E1-H2
 <400> 8173

gtcgacgggc tcatcaagcc gccggtcgtg tcggcaaaat acgcatcacc accaccaccc 60
 cagttccaag gatattaagc atggcatcat cgaaacatcg acgaggagcg accaattaag 120
 gtttaacaca acatcgctg cactatgcaca gatgtacctc attaatgttg aacgtgcatg 180
 catgcatgca tgcgtcgaga cttattatta attatgtgta tgtctgtgag tatgtgcgac 240
 tgcaaagtgt atgaaggga atagatgtta tctatgatgc cttttttttt gtttttggaa 300
 gtgggcaatt ttattaaagc atcaagcaac tttttttttt tggaaatgtg atccataatg 360
 ccgtatgttg tgcttttccc tttaggacaa atgtaattct ttcctt 406

<210> 8174
 <211> 413
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-041-Q1-E1-H3

<400> 8174

ggtcgacggg ctcaacgaaa taatcaaata caagggattc caagtacctc ctgcggaact 60
cgaagccctt ctcacacac acgccgaaat caaagatgct gctgtcgtat cgatgcaaga 120
tgaacttact ggtgaagttc cagttgcatt cattgtgcgg attgaaggct ctgagatcag 180
cgagagcgag atcaagtagt tcgttgcaaa agaggctggt ttctacaaga ggatccacaa 240
agttttcttc gctgactcgg ttccgaagag tctgtctggc aagatcctca ggaaggacct 300
gagagcaaag cttgtctcag gcatcccaag cagtgaagc acacagtcca aaagctgagt 360
cgcatcttac acacacacac acacacacac acacacctct gtccaaaatc atg 413

<210> 8175

<211> 398

<212> DNA

<213> Triticum aestivum

<223> unsure at all n locations

<223> Clone ID: LIB104-041-Q1-E1-H4

<400> 8175

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cgcgacaatg acaggagctg cagcaactac ggcgatggtg ggcacacggc atgtcgcagc 120
gggcgcgag gtccgtgatg acggcgagca ggcgacacat cacagcgctc ggcaaaggcg 180
tggcacggca tggtagcatg gaggcgctgc acggcgatgg cggaggctgc ggcggctcgg 240
tgtgacggcc atgtagcgat gacgagccgt atcaagacta cgggggaaat tgtagccat 300
agtcttgatc ttgcatctgt tangggttgt tagttgcacg cgttgtgttt gttagcagct 360
agctccatgc atggaaaaca gcaccgtcc aaaaccct 398

<210> 8176

<211> 419

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-042-Q1-E1-A10

<400> 8176

cgggcattcg ttcaccttga tttcgagtgt gaccacaagc cagagcactc gatcctcagc 60

aagcttccta gcagccagcc ttgattacca tccgaattca ctgtggaaaa cgcaagatgt 120
 tggatatttt gcttgccgtg caggattcgc tacagtactt ggtgtcttgc attgttggcc 180
 atctaaatga gataagcacc agcgttggag actgtataga cttgtttcgc ggagccctct 240
 aaatgtcgtg tttcgagtaa aagtaggtta tttttgcttc ttgaagctgt cattgtttgt 300
 ctgcatgag ggcgtcaatg tggaaatgtt agctacaaaa agaaagcaag cgatttttgt 360
 gtgctcaaaa tcagttttgt gaactaaggt cgcaaggagc gagctagccc acccgggct 419

<210> 8177

<211> 452

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-042-Q1-E1-A11

<400> 8177

ttcgccgggc cacgggctac agccaacgtt gaaacgaggc gagcatcgag ggaaccatgg 60
 agaacgtcgg ggaagcgatg tcgcgccatc tggcctcctc ttgcggtggg agaacgaata 120
 ctctgtggc tctggctggc tctgcaccct catgaacggc acaccatact cgatcgattc 180
 gttatcctct ggggtgctga ccttcgacct gtacgcccc cactccgcc tgactatcgc 240
 ctcggtgaa tctgtctgct ccatcgccca taggagatac tcgatgaact cggaggactg 300
 caacgtgact gccgccgagg agtacatgta catcacccgt cctcatcgcc gccatctcgc 360
 tctttcgcat acattgccac atggcccgcga cgtcctcga aatctccac tcattgtcaa 420
 accaactaag gatctccttc aacctagcta ac 452

<210> 8178

<211> 411

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-042-Q1-E1-A12

<400> 8178

cacgggctct atgtgattca cttatatctt ttgagctaaa taattttgct ctagtgcttc 60
 acttatatct tttagagcac ggtgggtggtt ttgttttata gaaattattg atctctcatg 120
 cttcacttat attattttga gagtccttta gaacagcatg gtaatttgct ttggttataa 180

aattagtcct aatatgatag gcatccaaga tggatgtaat aaaaacttcc atataagtac 240
attgaatact aagagaagtt tgatacttga taattgtttg agatatgaag atggtgatat 300
tagagtcatg ctagttgagt agttgtgaat tttagaaata cttgttctaa agtttgtgat 360
tcccgtagca tgcacgtttg gtgaaacggt atgtgatgaa gtcggagcat g 411

<210> 8179
<211> 342
<212> DNA
<213> Triticum aestivum
<223> unsure at all n locations
<223> Clone ID: LIB104-042-Q1-E1-A3

<400> 8179
tcgacgaagc gaattcccgg tccaagggc cacttcggtt gtacgtgacc gaaggtaatc 60
acaaacgggt gtcgtgcccc gatcagccga ttcgggaaca cgactctgtt gatccgtgct 120
tgtcgcacga tcagtagcag gcacgtacta tatatatgtc gtacgtttgg tcatattgag 180
tgatgaaatg tatttacggt tgtcggtggt cgggtgtcta actaacaaaa tgtatgtttg 240
actctctgaa atgagtaagg agatccattg taatccaaat acagataaag ctattcgggt 300
cgagaaaaaa aaaannaaaa aaaaaaaaaa aaaagcggcc gc 342

<210> 8180
<211> 278
<212> DNA
<213> Triticum aestivum
<223> Clone ID: LIB104-042-Q1-E1-A4

<400> 8180
gggtcgaccg gtggactaaa ggataaggag tggaaagaga ctaagctggg ggatgccaaa 60
ggaacccaag attatattaa aggataacca aaagcctaaa ccttggggat cccccggttg 120
gaaccccccc ttctctctcc gtcaaccgga aacttaactt gggccaaaat tttaatccac 180
aaaattaaaa gtggtttaac ttgggcaaca atttcccctg gtccgaattg ccttgcggtg 240
attaaataa aggtttttgca ccttaatttc cattaaaa 278

<210> 8181
<211> 428

<212> DNA
 <213> Triticum aestivum

<223> unsure at all n locations
 <223> Clone ID: LIB104-042-Q1-E1-A5

<400> 8181

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gtcaacgagc ggtacagaga atattgcttc gattcattcg tatcccagaa aacatcacac   60
tctctcgctc gagagcaaga acaccagata atacaaccag acaagcagca gtaggagtgt   120
tatctctccg gagagctccg aagctgggta aactgctcgt gtgcctcgcc ttgatctgct   180
cttcgtgcga cctccgcccc ccgccgaacc gaaagggggc cggtcgcccg gccccatagg   240
tgttcgcgga tcagtttccc cgacaaagta tgtgagttct ttattactaa tgtttagtcc   300
atatattata cacactetca accttcacc attgctagcc tctctagtat cgcgcaactt   360
tcgccggtac cgttacacca ctttatacct tcctcanaac agccacaata ctttactact   420
atgcattt                                     428
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<210> 8182
 <211> 413
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-042-Q1-E1-A7

<400> 8182

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gggtcgacgg gcatggccat agctcctgct gaaacatggg cagtacggaa agcctgctga   60
aattgatccc atgtgacagt gtctactgga tatgtggctg tgaaattctc ccaccatgat   120
gttgcgggtc cttcaagctg atgtgcggct aatcgcacct tctctgcatc tgtgcatcct   180
gcagtgggtca actccctagc tgtcttgcca agccaatcat ctgcaacaat cggctcagtg   240
ctaccggaga acaccggcgg attcagccta agaaaacggg ttaagtgatc aacagggtgg   300
ggtggtgggtg gggtgtgtgt gttgttcccc tgattctaatt tttggactag caactgcatc   360
aaggcattct gctactggat caactgagtg agctcctggg gggaaaagaa atc         413
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<210> 8183
 <211> 378
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-042-Q1-E1-A8

<400> 8183

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agagatggcg gagegtccgc tgggtggctat catgggtgagc tgggtgtgcta ccacctcgcc 120
cacggccgca ggtagectcc tccccggcat ccattgtcat gaaccaggac tgaatttgag 180
taattagata caattctcag acgctacgat ttggaggaga aactcgagct cgagtccttg 240
gagcaagagg aaggaagaaa tgagacaggg tctcgttaca ttctcgatac cgagtcagac 300
gggagctcat atacggcgct ctaggcgccc gtttgggaag tggcgctcac gcagccgca 360
atttgcgccc gcccaacg 378

<210> 8184

<211> 341

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-042-Q1-E1-B1

<400> 8184

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tcctgcttgg gtatcttcat tttggaagca ggaatccttt cctcataaga tggatgacct 120
gtagtattag gaattcatgc cttccagctc taattttttc gcattgttgg tgtatgctgg 180
gagtcacatt attatgctgc tagcaaacag taggattgga agtcttactc tgtagggttag 240
taatatcttt tccactatac cgaggttcag caatttaatt cgtattaagg tcacacaagc 300
agtttggttt tcagatttgt cttgacaaac atatttggtt c 341

<210> 8185

<211> 411

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-042-Q1-E1-B10

<400> 8185

ggggatcaac gtacagcagc aactcctggc cgcagcccaa gtccctccgc atgtacgcag 60
ttctaagacc tcatttctct cacttctcaa cacctctccc tcgggaacaa tagccgccgc 120

gggcgcacatc gcagcagcgg tatcctcacc aggagatcga tatgggtgttt gtgtctatcc 180
 aaaaaattag ggcctactcc aagcgggtcc aagtgcggtt caggagatgg agacagggga 240
 ctaccgatta cagggccagg ctccaggtca tcaatcaaga caacagcagg tataacagat 300
 ccaagtatcg gtttgttgta ctatttacta acaaagatgt cactgcccga attgtgtaca 360
 ctaccattgc tggcgatatc gtgatggctg ctgcctattc ccatgagctt c 411

<210> 8186
 <211> 408
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-042-Q1-E1-B12

<400> 8186

cgggtgcacc atgatggat gagatagtc ttggttgatt tatagaatgc tcattgcact 60
 tcacttatat cttttgagta tggctttata gaatgcttca tatgcttcac ttatatcatt 120
 tgaagtttgg attgcctctt tctcttcaca tagaaaaccg ccatttatag aatgctcttt 180
 tgcttcactt atatttgta gagaatgggc atatcttttg tagaaagaat taaactctct 240
 tgcttcactt atatctatct agagagatga caggaattgg tcattcacat ggtagtcat 300
 aaaatcctac ataaacttgt agatcgctga atatgatatg ttgattcct tgaaatagtt 360
 ttgcgatata aagggtgtga tattagagtc atgctagtgg acgactat 408

<210> 8187
 <211> 410
 <212> DNA
 <213> Triticum aestivum

<223> unsure at all n locations
 <223> Clone ID: LIB104-042-Q1-E1-B2

<400> 8187

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 aagtggaaaa ccttcgtaaa ccaattgaaa aacccttaag gtaaaaaaat tcttgatttc 120
 aacaatgcta aggcggcggc aaaaaaaaaat ttggagaaag cattttggat ttgcaagcc 180
 caatttgcta ttgtgagagg accggctaga ttttgggatc aaaaaatgcc ctggtacatc 240
 atgtacgctt gtgtgatcat gcacaacatg atcatcgaga atgagcgtgg ccaagagatt 300

tagactactc acagtatgag ctcttgggac atcccgtgcg agtgcgacgg agggctgaag 360
 ggtancccg tttgttgctt cctatcatgc cattcggtgt cccgcaacgc 410

<210> 8188
 <211> 415
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-042-Q1-E1-B3
 <400> 8188

cgtgcacaaa taaatatgtc atgtgaaaat ttggaaaatt tcaggggtca tttgacctat 60
 taaagacatt tacgtgattt tctaaccatt taatgaccgt aattcaaatt taaactacat 120
 ctacatgcaa cgcctaacca taacgggttg aaaaagctta tttttacgta cttgtgcgcg 180
 agttaattcc atgtgcagca aattaaagg gatcttcaaa catgttggtc tcaaagcatg 240
 ggcacatgca tacgtatggc tggagtgaca tggcatatta attcaaaaaa aataaaacat 300
 gatcaaaaaa acttgaaacc ttgcttgatt taatgtcatg ccaccaagat gatgtggtaa 360
 agaaattggc atgtttgacg aacgtttgga cacacaacc tcacaaaccg gagca 415

<210> 8189
 <211> 384
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-042-Q1-E1-B4
 <400> 8189

cggtcgaccg gatgccgat acatcatcat cggtaacatc ggtgaccatt ggagcgacat 60
 ccttggcgcg cctgagggcg cccgcacttt caagctgccg gaccccatgt acaacatcgg 120
 ctaggccact cgggcttggg catgccgcca ttgagttctc gaataagctg gacgctctta 180
 gttatatgca tgtttagtca ataatccctc cccagttggt gcttggttca tttccattgt 240
 tgagaacttg agattaattg ccattatagg atgtgttcat ggagaagttg catgttgctt 300
 aatctatgga tccacgtcc actatctttc ttcttgcgag aaaagtcag caacaaaaag 360
 gatgtgcgaa ataaattggc atgt 384

<210> 8190
 <211> 363
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-042-Q1-E1-B5

<400> 8190

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gggccgacga cgacctctag ggcccacaga gagagtcaca catgagtgtg tgtcatagga   60
caaaaccacc gcggtgtatgt gcccgtgtgt tatgtgatgt ttgaatacc aatgcacaac  120
ttaaactggt cacatgcttc acaaaccgga aacgcactac accatgatgc gtatctccct  180
cacttcaagc cgggtgggaga gcctcatgtg tacgcacgtg cccgaacttt aatatggaat  240
ctcaccatga tccacaccac acgcatgcc aagatgaatcc accttttggg caaatgcctc  300
tcgttgtcgg tggaaactac aaacctttgc gggctaacga atgggcacgt cgctgatacc  360
gca                                                                    363
  
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<210> 8191
 <211> 375
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-042-Q1-E1-B6

<400> 8191

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acgcctctct taagacggat caccatcgcc ttatggagaa agcattcaga cccttcatct  120
ttgccatcct ctttgcaatc ggctcctcca agaaactttc cccccctcct cctgtagaaa  180
cccagctagc tagctagcta gcgtgcgtac gtctccggcc ccaacattca ttccatgtga  240
gcacattata ttatattgga ggctcctttt tttcttgggt tgattatttt tgtaaactca  300
cattcacata tcacgattgg atcgagtcgg atttctaaaa aaaaaaatg caagtcacac  360
acaccacaca aatga                                                                    375
  
```

<210> 8192
 <211> 151
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-042-Q1-E1-B9

<400> 8192

ggggatcaaa gtaccgcagc aaaccctaac cgcagcccaa gtccctccgc aacgacgccg 60
ttccaaaacc ctcccttctc ccacttctcc acccctctcc ctcggaaga aaagccgccg 120
ccgcgcgcatc cgcagcagcc gcatccgcag c 151

<210> 8193

<211> 377

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-042-Q1-E1-C10

<400> 8193

cgggagaaga ggtcataggg tacctagggt ttatgacgtc tcgttgtttt tgcaagctag 60
catgtgactc cgggatgcct gttttaagat ttcgcttggt ttgaaagata ttattattta 120
ctgctttag cctacctggg ataccatcat attttgetga ttatggaact acttttatcc 180
tgcttaagtt ctgtattttg cccgatttga aataaaaaaa aaaaaataaa aaacaaaaaa 240
gaaaaggtaa aaaacaaaaa atcgaaaaaa attcaaaaaa aaacaaatac agaaaaaaa 300
aataataaat catcaacaga aaaaatccgg gccacccaaa gggttcaaac cttacttacg 360
cttgaaagcg acttcaa 377

<210> 8194

<211> 410

<212> DNA

<213> Triticum aestivum

<223> unsure at all n locations

<223> Clone ID: LIB104-042-Q1-E1-C11

<400> 8194

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cagctgttct ggaaggtag ggcaccgtg ctacggctga agcggcgac tgcgagtttc 120
gggtataaac gctaaagcta taccagaact tcaacgacag tctcgtcact gccaacgcc 180
tctagctatc cacaccgca ggccgcatgg tcttgttct cgtcttcgca attttttact 240
tgccgcaagg tcggaccact gcatgaggct ggacattttg aagcgtgtcc acaacttctg 300

atatgtctct cgatctcagc taccagtgtt cgagtattag attgtactgt tcgtacacaa 360
 cttgcatagt gtacanaatg acacagtgtataataatgtac ctccatcctt 410

<210> 8195
 <211> 438
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-042-Q1-E1-C12
 <400> 8195

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 ggcttccatg tgcacgctct tggcgacacc accaatggct gcatgtcaac tggaccacac 120
 ttcaaccccg ctgggtcatgt gcatggggca cctgaagatg aaatccgcca tgctggtgat 180
 cttggaaatg tgacagctgg agtggatggt gttgctagca tcaatattac tgactgccat 240
 atccccctta ctggacaaaa ttcaattggt ggccgtgctg ttgtcgtcca tggtgacgct 300
 gatgatcttg gcaaggggtg acatgagctg agcaagagca ctggaaacgc tggtgacgct 360
 gttgcttgcg gaatcatcgg gctccagggc taagatgtca tcttcgccga ccaacgtcgt 420
 acagatatgg gaaccttt 438

<210> 8196
 <211> 335
 <212> DNA
 <213> Triticum aestivum
 <223> unsure at all n locations
 <223> Clone ID: LIB104-042-Q1-E1-C2
 <400> 8196

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 aatacagggc ggccccgccg gcgacgacgc gactgccggg tattgattag ccaggccccg 120
 ttccccggcg gcggatggaa atggatgcat ggatgtccgg tcgattgact gggcgatctc 180
 ttgtttcctg tcgtttaaat ggttctgtac atacaggttt gccgtttgat tcacggttga 240
 caccaccacg tagatcatct agcgttcaga tctctgctta ttgattggtt ctttgtacaa 300
 aatataanan taaaatctgt aaaaaaaagc ggccg 335

<210> 8197
 <211> 333
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: LIB104-042-Q1-E1-C4

 <400> 8197

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 gaaacccacc acttcggtta acaattaggc ggtaatacca taccagacag aaaaattgag 120
 agtgcattgt gtgctacctt tattttttca tttcgttttg gcgaaaataa tggaatgcgg 180
 taaggggttg gttccaggtc ccggtattag aaattcattg tagggcatca tgcctcatta 240
 attgtgaatt gtgatcactc attttgaata acagaattca ttccaaaaaa aaaaacgaaa 300
 aaagaaaaag acgcaaaaaa aaaggaggaa gag 333

<210> 8198
 <211> 432
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: LIB104-042-Q1-E1-C6

 <400> 8198

 attcgccggt cgacggggat gataacatcg tggaccatcg actagatcat aaaggccagt 60
 atttgcttcg tgttgacatg aagagtaacg agatccagat ctctccacag cctacaaggc 120
 gtatttggtta ccaactcttt gccagcgagt tcagtgcgta ccgacagcat ttacaggatt 180
 gaccgaagag agatagaagc aagagagttc ggtgcgagt gaaagacggt gaagatttga 240
 gatgttggca acataacatg tggaactggg acttaaagtc cactggagac atttactggt 300
 gtcattatct gatgttagta gttataaact gaatgggtgg tagtatgtgt tttcactcat 360
 ggctttatgt ctactgagt gcttgttttg gatttgtaac tggtaatggc atgtttactt 420
 ttgtgactgc tg 432

<210> 8199
 <211> 131
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: LIB104-042-Q1-E1-C8

<400> 8199

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taatacttgt tttcgccttg tactttttgc cagcatcaat cagttaatta tcagagatac 120
atgttcagct t 131

<210> 8200

<211> 432

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-042-Q1-E1-C9

<400> 8200

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actggtgtgc ccgccatggg aatgagagga tgagggcaga caaggcccg ctcgctaccg 120
gcatggcggc ggcagaggcg gctgatacag cggcacgggc ggccgcataa gaacgagcac 180
gcctcgcccc agagcagaat cgagtgggtcc gtgccatggc cggactgcca cccaagaacg 240
agaaggtgga cagcgacggg tcggacagct tcggcaacga gcagatccgg ctaaaccgt 300
actgagtctt cgactggtac ttccgcgaga aagacggcaa tggcgcgtat ccgggaaggg 360
caagggcacc cgtggatgat cttctccgcc atagccgaac atgccaaatt ttggtagtcc 420
aatggaatgt tg 432

<210> 8201

<211> 420

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-042-Q1-E1-D1

<400> 8201

gggtcgcccg ggaagttgac cctagtcccc gctgaagaat gtatttagtc atttagtgtc 60
gatgcaaggc agtaaccatt tcttgtcttc atcctcgat tgtatagcat atagaggtag 120
aagggagaga gagagagaga gagagagaga gttacactgt aacaacatac atttgggtag 180
ctatctatca gggcgccggc acgtagtcac actgcatgga tagggacgtg cgttagcat 240
ccaggagaag ttgttttcag cataaaaaata ttcagtctaa caccgatgac cagacaaca 300

atgtccttct cttcttcccc tacttctctt gggcgtcac atcggcgggt ggcgagcacg 360
gctgagtgat atatggtcac gggctcacgg cctagttgtt gaacttgagg catgggcggg 420

<210> 8202
<211> 434
<212> DNA
<213> Triticum aestivum

<223> unsure at all n locations
<223> Clone ID: LIB104-042-Q1-E1-D10

<400> 8202

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gggaacccgc tggggatctg cggcaactac acgtttggca actgccacac gcccaaggcc 120
aaggagattg tggagaaggc gtgcgtgggg aagaggagct gcgctgtggc cgtgtcgac 180
gaggtgtacg gcggggacct caactgccc ggcaccacgg ccacgctggc cgtgcaggca 240
aagtgttcca agaggcagag gaccgccgag caataagtaa cctaagctca catatgtact 300
gctatgtaga tgatctcatc accttgacct tttgcctttt tcatgcttgt tctttgggat 360
gcgtgcatac gtgttgact caggttggtg attcctgtga attgttctan gagtagatgg 420
agcgctgaga tgag 434

<210> 8203
<211> 444
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-042-Q1-E1-D11

<400> 8203

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ctgccattcc aggtaaaagg tggggaatgg gaaattgaca agcggcttct gaagatggga 120
gagatgattg cttctggttc ttgtggagac ttgttccatg ggacttactt tggcgaggat 180
gttgctgtta aagttctaaa agccgagcat ttgaataata atgtttggaa cgagtttaca 240
caagaagtat atattctaag ggaagttcat cataccaatg ttgtgcgatt cattggtgca 300
tgcacaaaac caccaaaatt ttgcataatt acagaataca tgtctggagg aagtctgtat 360

gattatgtgc acaagcagcg taatgtcggt gatctcccaa ctctgctgaa gtttgcattgt 420
gatatatgcc gaaggatgtg ttac 444

<210> 8204
<211> 305
<212> DNA
<213> Triticum aestivum

<223> unsure at all n locations
<223> Clone ID: LIB104-042-Q1-E1-D2

<400> 8204

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attagaaata atacagaatt aaaaatttta acttgatata cgaactacaa atttaaagaa 120
ctactaaaga gccgcccggg ttaataaaaac tgagaaaatt aactcggaaa gaaatttttt 180
ggaagctccg ttgctgggatt cagacctaac cattcaagga gaagcagtgga gaacgacaga 240
acctatgatt ccatangatt ttattgacaa gaatcctaac acttcattgg gtgggatggc 300
ggaac 305

<210> 8205
<211> 315
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-042-Q1-E1-D3

<400> 8205

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tctagcttgg gatttagagg aattatgaag ggccgcccgg gttaagagaa ctgataatat 120
tgactcggaa tgaatttttt ttgcaactcg gttgggggat tcatacttca ccattcaggg 180
agaatcagtc gtatgtatag aagctattat tcaatagggt tttattggga agactccttg 240
tacttcattg tgcaggagac cgggctgcaa cttaagcagt gtcttaattg gttcatgaac 300
cagtgtacgc ggaac 315

<210> 8206
<211> 429
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-042-Q1-E1-D5

<400> 8206

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gttgtccaca tattaataag atgttaatct tgtattggaa aatgtcaa atgcatttg 120
aaaatgttaa atgtgtataa aaaatgttga ccatgtat tt aaagaatgtc aatcgtgtat 180
ttcgaaaatg ttaatcatgc tttagaaaat gttaaccgtg ttagtaaaa atgttgaaca 240
tttataaata aaatgcta atctgtat tt agaagtgtta acaaggcatt tgaaaaatgc 300
taa atgtgta tagaaaaaat gttggccgtg tttcgaaaa aatgttaatt ttctcttcaa 360
aaatagttaa acatatat tt aaaaaatgt attagatatg taccaaaaac ctacaatgtg 420
taaggaaaa 429

<210> 8207

<211> 414

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-042-Q1-E1-D7

<400> 8207

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cttcggaatg ctaaccgagg gtgagagatc cttggtcgag cgcgtagagg aagagctgaa 120
gcatgagctt aaacaggggt acagagaaaa gcttgtggac atcagggagg agatactgcg 180
gaagcggaga gccggtgagc tcccaggaga cacggcgtcc actctgaagg cgtggtggca 240
agcccacgcc aaatggccgt acccaactga ggaggacaag gcgcggctgg tgcaggagac 300
ggggctgcag ctgaagcaga taaacaactg gttcatcaac cagcgcaagc ggaactggca 360
cagcaacct acctcgtcct cgtcggacaa gagcaagaga aaaaggaaca atgc 414

<210> 8208

<211> 426

<212> DNA

<213> Triticum aestivum

<223> unsure at all n locations

<223> Clone ID: LIB104-042-Q1-E1-D8

<400> 8208

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gtagagcta atcttgatat ttgtattagc atgtttgagt tttgcatgta gtctagtcta 120
gtgtggtgtt cgtccgacga aggtttcagg tgagcgcgcc aaggaggtga gatgccagga 180
tgccgtgtga ggcggcgagc acggcgagat gccgatggtg ctgcgtgaga agcggcaaga 240
cgtatcagag gctggagccg tgatggactg catcaaattg ggtcgggtga accggccggt 300
cgttctgttt gttggactag ctgttcatgc gtgagttcgt ttagtcctag ctgagagtat 360
cgttgctagt agttgatgca tgcattgata anaaaaaaaa aaaaaaaaaa aaaaaaaaaac 420
cggccg 426

<210> 8209

<211> 403

<212> DNA

<213> Triticum aestivum

<223> unsure at all n locations

<223> Clone ID: LIB104-042-Q1-E1-E1

<400> 8209

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cgccgaggct ccccggaagg tcgacggcgg cctactccat gtgcaccggc aaagggagga 120
cgctcaaagg gcgggacctt cgcaacatca ngaacctcgt cctcaagatg accggattca 180
tcgagaaatg aaatggactc aacaccgtgg gatgtggata cattgcttcg tcgtccatgg 240
acgtgtgtga aagtttgtgg caacctaat aaagttttca gtgagcgcag aggtgaagaa 300
agataagaga ttagtaata actctctgtt taattaatta aatttgtctg ttagtcgaa 360
ttttgcatgt gtantgtgcg agcagcttgc tcaagaataa atg 403

<210> 8210

<211> 140

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-042-Q1-E1-E10

<400> 8210

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tgatccactg agtttacaaa ccgtttgtcc ctatttggtt gcaccaacca ttgtcgggaa 120
 ttttgtgtta acaatgggcc 140

<210> 8211
 <211> 434
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-042-Q1-E1-E11
 <400> 8211

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 ggcaggactt gcaagccaga aacctacaga ctggttaagga cataccccag gcgtgctttt 120
 accactgctg acggcgacca atcgtttact gatctcgggt taacaagcaa gcaggaagcc 180
 ttatttatag agcagattac tgattagggg aaaaagattg agcctcacct agggatacca 240
 ccacttgaga ctgagttggg gttttacatg tctatacttg catatggctt ttactagga 300
 atctaaaatt ggtctgtgtc gaagagttca aactgcgttc ttttgtgatg tggaacgggt 360
 cgcatcactt tagtcttatg taggggggtat aaaacagtga tcagcaacgg attcaggata 420
 tttggttatg aatg 434

<210> 8212
 <211> 349
 <212> DNA
 <213> Triticum aestivum
 <223> unsure at all n locations
 <223> Clone ID: LIB104-042-Q1-E1-E5
 <400> 8212

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 ctgatgacat tggcggagtt tgagacggca agacaggcgt ggaatgcact caaagagatg 120
 aggattgaat aaaatcgtgt cacgaaggct cgggcacaag tgctgaagcg ccaatttcac 180
 aagttgcaga tggagaaaac tgaatcgggtg aacgactatg ccatgcgtct gactactttg 240
 gtgggagaga tccacgcgtt tgggtcanag ctgcagcaga ccgagattgt ggagaagttt 300
 ttcagtccgg tgactgatan attcacgtac atcatcggca cgctcgaac 349

<210> 8213
 <211> 362
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: LIB104-042-Q1-E1-E6

 <400> 8213

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 tgccgcgtga gctgaggcag atgaaggagg gcggtgttat ggtgagcctg gcggacaact 120
 gcttgctcaa gtgcccgcac aagttcttct tctgccaggg gccgccgcag aagaaccgtg 180
 acacatgtcc caagtgcgaa ccatgagagg ttccatactg tagataacgc attcatgtcg 240
 tataccttaa tttcatcggt tactgtatct catcggttac tgtccggatg atgaacttta 300
 ttgatcgaat aatactacat aactttgctt gaacgcgggt aacatgccaa aagtggattg 360
 ct 362

<210> 8214
 <211> 353
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: LIB104-042-Q1-E1-E9

 <400> 8214

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 atgttgcggt gcgtgggtgc tgctgccggt cttgtgtact ccattgttgt gctgtgatca 180
 ttcccttgaa taaatcggct cgatcttcac tttaaaaaaa aaaaaaaga agaaaaaaa 240
 aaaaaacaaa aatcagtata ccggacttaa tcagacatcc aataacatta atcggccctc 300
 caagaggatc aaagctaaca tactccggca agctaggtca aagctctcct aaa 353

<210> 8215
 <211> 356
 <212> DNA
 <213> Triticum aestivum

 <223> unsure at all n locations
 <223> Clone ID: LIB104-042-Q1-E1-F1

<400> 8215

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tcttctagaa agcccatggt tgaagaaaag ttgaataaag gagatacaca gcctactgat 120
atgtcaggcg cgctctccct ctccctcgca tttccagcat caaaggatca ataggctggt 180
aaaatgcaac cggaatcgca aagaagcatg agatgagcag tangaatata ccgtcttcga 240
ttatccagtg atgatggctc cttgcctttg cattcctgat gtcttgctg atgcaacctt 300
gtagcatcaa cccactgcac aaggagtctg cctaaaacac aactatcttg tcaatg 356

<210> 8216

<211> 384

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-042-Q1-E1-F10

<400> 8216

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atataaatat cagttccaag ggacgggtctc aatgcaccaa accaccatgt actcctacat 120
ggcctcgcaa cgatagcttt accacaacgt cttcaatacc tcaactctcat taacgacaca 180
tgcttttcagt ccaattgagg accctgatga atcagagctt atacgattct aatcgttgca 240
agcataacat tttaggaata cagtatggct cagacagctc ctacacatgc tagtgcgttt 300
catcgactta ctgtggcaat gacaagtcac gcataagaaa gtgggtttaa ctaccgcagt 360
atacactaat ttgaatcgca ttgt 384

<210> 8217

<211> 464

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-042-Q1-E1-F11

<400> 8217

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atgatagcta ttatggccgg ttctttctca actggtatgc ccagggtgtg ctggatcatg 180

cagaccgcgt gctgatgcta gccagggttg cctttgaagg ctcagctatt gctgtcaagg 240
 tgtcaggcat aactggtgg tacaaaactg ccagtcatgc tgctgagctg actgctgggt 300
 tctacaaccc atgtaaccgc gatggctatg ctccaattgc ccaagtattg aaaaagcatg 360
 gtgcggcttt gaacttcacc tgcgtcgaac tgcgcacat ggattagcat gaggtgtacc 420
 ccgaggcctt gccagatcca gagggcttgg tatggcaagt gctg 464

<210> 8218
 <211> 424
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-042-Q1-E1-F12
 <400> 8218

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 ggcacatctt tgtgccggtc gagctagtcg tactagaaga agctgcttgt ggattaattt 180
 tattectagc tttctcacat ctttgtgcta tcttttctgc caacatttct aatcagttgt 240
 attgagctat ataaaaggac tattcttgag tgtgataaat acatgatgca ttgcttttgc 300
 aggggtaaag acttggaata gaaaaatccc tcccttgga gcttggggcc tcatttgtaa 360
 acccaaatat caaggatggg tttttgcatt tcaaactttg aggtcagaa tgatgctttg 420
 ctat 464

<210> 8219
 <211> 221
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-042-Q1-E1-F2
 <400> 8219

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 cgcccccaac aacgggcggc ttgaagaacc ccaacggcaa aaggcccgga accgtggccc 120
 tgcgtgagat ccgcaggtac cagaagagca cggagctgct catccgcaac cggccgtcca 180
 agcccctgat gcgggagatc cccaggaact tcaagacgga c 221

<210> 8220
 <211> 391
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: LIB104-042-Q1-E1-F4

 <400> 8220

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tgcagtttca tcaggctcct cgcctacgtc gccaacctct tcttcaagct caagacgcat 120
cgccagctct tcgagccgca ggaaattgag ggcggaatg atgataagga aaaggcggtc 180
ctcggttttg ggagcgcgct cttctggctc atcctcatga ccatcataat cgccgtgctc 240
tccgagtact ttgtcggaac catcaagccg acctcgcat cgtgggggtct ctcggttaagc 300
ttcatcagca tcactctgct ccccatcggt ggtaacgcgg cggagcacgc cggagccgtg 360
atcttcgccc tgaagaacaa gctgggcata a 391
  
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<210> 8221
 <211> 357
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: LIB104-042-Q1-E1-F5

 <400> 8221

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gggggagatt tgccctacga cactgttgct cattggaaca aggagcaaca cctgggttagc 120
caacggtgac aaggtcagat gatcctttta tagagcatgt tcaaaagttc agggctcatg 180
tgggatgccc acctgaccat acgtcagggt atcaaccttt gatgtttgcg ggacattgta 240
gtgtgaacat tgtgtgtgtc ctgtataaca tgtctaagct gaaacggtcg tctgaaatcg 300
atgtggtata ggaccatgcg gtagccatcc agagttcttc acattctgat cgtagtg 357
  
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<210> 8222
 <211> 261
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: LIB104-042-Q1-E1-F7

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aaaagaataa gaaatttagct acaagaaagg aaggggaaaat tccaaccaag actcccccg 120
ccttaagggtt ttaaaacaag cccgttaaca ttgggaattt ccaagatttc aacaaatccg 180
gttggaacc ttccccgaa ccttccaagt ttccccgaa cgggtcaac caccattcca 240
ttgcgccaac cttttgcaa a 261

<210> 8223

<211> 439

<212> DNA

<213> Triticum aestivum

<223> unsure at all n locations

<223> Clone ID: LIB104-042-Q1-E1-F9

<400> 8223

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cttcataaca ttttcttttc ttccaaaact tttctggtgc aattcacata agctcttgca 180
cttctagtac tcaacaaatc gatgacctt aagcgtgtgt cctggcaggc tcggtaaatg 240
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ttgtcccccc tacacttaca cgaattatta tcgagtgaac ctattgttct gacacacaat 360
tccctttatt tcacaatata acataatcaa aggtgatact tattggtatc catgtgaagc 420
aactcatgat canncatac 439

<210> 8224

<211> 181

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-042-Q1-E1-G1

<400> 8224

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ggcgaatcca acctccaaac ctggggagcc ggtggatctt ttttgcaaaa tgaaagcaaa 120

cttgtccaac aaaaaaaaaag ataaaaaaaaac gtaaaaaaaaa acgggcgggtc caaaagattc 180

a 181

<210> 8225

<211> 443

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-042-Q1-E1-G10

<400> 8225

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ttgatataga aattgcctag gttttcctaa gttttcaaaa aaattggagt tacagaagta 120
tacaaaattt tcagattact acagactggt ctgtttttga cagattctgt tttctatgtg 180
tcatttgctt attttgatga atctatcggg agtatcgggg ggtatgaacc atggagaact 240
tggaatacag taggtataac acaaattaat ataaatttag aatgatttca caacagtacc 300
taaagtgggtg atttatttta ttatactaac ggatcttacg agttttctgt tgagttttgt 360
gttgtgaagt tttcaagttt tgggtaaagt tctgatggac cacgaaataa ggagtggcaa 420
gagcctaata ttggggatgc cca 443

<210> 8226

<211> 412

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-042-Q1-E1-G11

<400> 8226

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atggtgggag aaggcgaggg agaggaccag ggggagaaaag gaggtgtcag caaggtcggg 120
gcgacatcca ggaagcgatc cacgtggcgg gacgggtgtct agggcatagt agagaggcgg 180
ggtggtgctg ggcgagctca ggcgcgccgg tgetcacctc cctgcctgcc tggcgggagg 240
aagcagctga ctggcgtggg ccagcgcaat gctgggacgc cagggtgggt cccaggtaag 300
tttcctctc tctcagtttt ctgttaatgt ttttctattt ttctgtaact tctgggcttt 360
attaaaaata ccaaacggtt ttcaaaaatc ctgaaaataa ttgttggtc tg 412

<210> 8227
 <211> 438
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: LIB104-042-Q1-E1-G12

<400> 8227

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 ttcattacag ttactttggt aacttgcaat gttaatcatg tgtatgtgca tgatattcaca 180
 tatcatctga ataatatcga tcagagtctt atgttatgca gaccattcaca gtgcaggata 240
 aatgatcaag ttggtcaaac taccaagaaa atatttcagc tatccacaaa tgaaatatca 300
 tggaggataa atatctatgt gagggagtgc gaatgattgg aatcttcata acaaggtaac 360
 agaaaatcca ttaatatagg caactggtag aatttggtgg gtgtgcccgg tcagtctact 420
 ttcccatgtg ttttacct 438

<210> 8228
 <211> 292
 <212> DNA
 <213> Triticum aestivum

 <223> unsure at all n locations
 <223> Clone ID: LIB104-042-Q1-E1-G2

<400> 8228

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 ggagccctgc tagagccccg gaggtgacaa agacgcagag ttccggcagg ggtgtggtgt 120
 tgtggccggg gtggtggagc ggcagcgaag gcaagagaga acgaaggaag gagagaaaat 180
 gagtaggatg gagtcacgga gtccgggaag ggttttgggt angatgggggt gtcggattcg 240
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<210> 8229
 <211> 337
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: LIB104-042-Q1-E1-G4

<400> 8229

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ttagttaagt tgatgttact gttgtttttt ctgctgccc ccatgccatg aacaggcgag 180
gcaggcagct tctcaaactt gtgttgttgt aacttgatg atgggagctt aagtacatta 240
ctttgtttca taatacacca tgttctcgcc aaaaaaaaaa aaaaaacca aataaaaatt 300
ggaaaataaa tacaattgga aaataaagcc ttcccc 337

<210> 8230

<211> 393

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-042-Q1-E1-G6

<400> 8230

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tcacttcatg tgataacacg aaacatagt gcggcatctg ctataccaag acaccgtccg 120
cagaatgggg atagacccta caaaattcg ccgtagcagc acttccttca aaggagtgc 180
gccaggcctt tacaccaatt gtacaggctc tgtactacta gaggttgtgt tcggttcac 240
cgacaacctc catcgcgaaa agctcatttt ccatatcgcc ccattcaaaa gtggccatca 300
agcactactg ggacgcgaag ctttcgccc ctttaacgca atagcgcatt acgtgtctct 360
tacgcttaaa atgcccggtc cagcggcat aat 393

<210> 8231

<211> 416

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-042-Q1-E1-G8

<400> 8231

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ggtggacttc gggacgcgg cggtggacat ggggctcaag tacatggcct actcgtgcgg 120
catggaggag agcacgctgg tggacacgct cgggcgcgac caccggcg tcaaggaccc 180

ggagtcgatc caccgcagcg ggtggagcaa ggtggcggag tactacctcg gcaagcagga 240
 cgtgaagctc gacctccagc ggttcgagcc ggtgctcctc aaggccatgg ccatgctcag 300
 agagtagccg ctccgatcga gcttcgagcc ccggcgcatt ggttgattcg cactagcgta 360
 gagcagttcc atttcttcta atttattcct attaatTTTA catatttttg ggtgga 416

<210> 8232
 <211> 438
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-042-Q1-E1-G9

<400> 8232

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 tatatagggc atccccaaat tagtaccacc tcgtttatat tatatcttaa atataaaatc 120
 acctaagtgg gacgaaacca agaatatcac cttgctttat tagtaggtat agatatagat 180
 atagatatgt aattttatat catttcttga actaatctat taactcagtg ccagtgcca 240
 ttttctgttt ttgcctatTT atttgtttca cagaaaaacc ataccaaagc aagttcaaac 300
 acgatgaaat tttatgataa tttttcctgg accagaagag accctagaag ctttgaggga 360
 ggctagaaaa tatacagaga gccacaaggt catacggagc accccaaggg gtgcaccacc 420
 tgagcttggtg ggcccctc 438

<210> 8233
 <211> 426
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-042-Q1-E1-H1

<400> 8233

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 agttgcggag agatggcgca ctggccatct cacaaccata ttgatggcgc actggaaatc 120
 ttctcaggca aatactgtaa tagccaccaa tggtttgatg acattgctta ttgcaagact 180
 tgaccatcga aaagttattg cttgtttgac tctgctgaaa ctaataaagg tttggTTTT 240
 attcttttct ctcatggttg agtgattcta cttgtcaagt aaccaacaac gtttttagag 300

taagcttaga attttgggtc actcatgata aattaagccg ggaattaggt taataaaaaac 360
 taaggcggga attttggata ctctgtatca ttgaagtgtt ccatgttgtc gtgtacaatg 420
 tgagac 426

<210> 8234
 <211> 435
 <212> DNA
 <213> Triticum aestivum
 <223> unsure at all n locations
 <223> Clone ID: LIB104-042-Q1-E1-H10
 <400> 8234

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 tcgggaattt tagaccaagc ttctgataaa ctaagatttt cggctaaacc attgctaact 120
 ctctgatata tttcttgctg aaagtatccc tgatcccact gataacgagt aggcccaaact 180
 aattcgattg gggtcgttgc tgaccatac cacatagttc cagcaactac gaaagctgca 240
 aaaaaaacag cagcgatact actggaaagt acagtttcaa tattgcccat acgtaatcct 300
 ttatatagac gttgaggcgg acggacacta agatggaata agcccgctaa tatacccaat 360
 gtacccgcag caatatgatg agaagctatt cccccggaa caaaaggatc ananacttct 420
 gcacccacg ctgga 435

<210> 8235
 <211> 371
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-042-Q1-E1-H12
 <400> 8235

gggccacggg aggatttcgt tggcgggggtt gaacctggcg aagtgcgagc accttgccga 60
 tgccatcatc gactccttcc acaatgtcaa ctagattatg atttgcgctc cggccacgct 120
 actgcgatta gttccttcca tagtttgetg ggatttttgg gtccttccag ctcgagtttt 180
 tagtcgcgat gctgatgacg tgtccggtga ttcagaggta cagtaataaa taatttggca 240
 aaactcaggg atgctaggcg ctatgcaett gtaccgtttt gcaagcttgt aatgctgatt 300

aattatgtat gatggcatct ccaattaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaag 360
aagaacaaaa a 371

<210> 8236
<211> 390
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-042-Q1-E1-H4

<400> 8236

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gttcaacctg gcataacctg agcaacatgc agcctgcccc acaaatggct acggacaatt 120
tgggtggcca caaccttcac acggctgcca tgctctccgc agctggacgg ggtggacctg 180
aactcgtccc taattcattg ctgccttttg aggtttccgt cgtgcttcgg ggcccataat 240
ggatacccac tatatatcgc aagaagtttt cagttgacat gcgttgcttc gccggggata 300
aggtttggct aaagcccga acccctccta atggtgggcc ttcagttggc gggtcattac 360
catgtccaca atttagacct ttcataatgg 390

<210> 8237
<211> 410
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-042-Q1-E1-H6

<400> 8237

gtcaggggaag agcgaatggtc ttttctacc aatctatccc ccaggagcat gcacgtaata 60
ctttgctttg ataaacttct agatttttgc agtaagtata tgagttcttt atgactaatg 120
ttgagtccat ggattatagc cactctcacc ctccacctt tgctagcctc tctaataaccg 180
cgcacctttc gctggtatca tacacctacc atataccttc ctcaaacagc caccatacct 240
acctattatg gcatttccat agccattcca agatatattg ccattgcaact ttccaccatc 300
tagttcatca tgacacactc catcattgtc atattgcata tcccgggtaca ccgcccgatg 360
cattcacata gagtcatatt ttgttctaag tatcgagttg taaatgttga 410

<210> 8238

<211> 412
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: LIB104-043-Q1-E1-A10

 <400> 8238

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atgacaaaaa aaaagttccg gaagaaatat ggttactgcg aaaaggcaga cgtgaagtgg   60
aagccatatg ctctgattt caagcacaag aatctggcta agctcaccat ctacggcttc  120
caacccaacg acaattttta gcgatacatc aggtgtgttg tggaacatgc ggttaatata  180
acagagatat ctctgtacga caggaagctg tgtgggcgct gtggtgacaa ggtttatcaa  240
tcaagatata cacggactgc cgaggagagg aaacgaacgg ctgaaggggt gggtttgact  300
tcacctgctg tgattcactt ccggctctaa ctgaaaaatg atttgcatga tattcttata  360
tgtagtttgg aaatcaactc ctatcatctt tagtcggaag gagttcctga ac          412
  
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<210> 8239
 <211> 404
 <212> DNA
 <213> Triticum aestivum

 <223> unsure at all n locations
 <223> Clone ID: LIB104-043-Q1-E1-A11

 <400> 8239

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cgcaaggacc ttatggtttg gtctaacccc aaatggcata aacccttttg gggagcaaaa   60
cagcaaccat agcacctggc cggtgactct aggttttgta taaccttcct ccttggttgt  120
gcatgaancg gaagttcatt atgatgccag tgctcatcca aggccctaag caaccggca  180
acgacattga tgttttacct aaggccatta gttgaagaac tcttacaact gtggaatgga  240
ataagtgtac gtgcgtggga tgagcacatg ggggaagaat ttgacctaaa ggcgtttttg  300
ttcatgacca tcaatgattg gcctgctctc agtaaccttt cangatagac aaataaggga  360
atacgcggat gcacgcactg tttggatgat accgacagta tata          404
  
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<210> 8240
 <211> 393
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: LIB104-043-Q1-E1-A12

<400> 8240

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atttgatccg tgtgtgaaaa gagaatgact atgggttttt gtgtgcacgc gcgggtggca 120
cttgaatggg gtgcacgtgt acatgtgtgt atgctaacac cgatttgggtg tgtgctgatg 180
atcatgtaaa ttattatggg ttgattgctc gtggatgtaa ggtctatgta cagttgttac 240
atgagtgctg tacagcctcc gcatgcatgc gtgctgcttg gcattgcacg tttataatct 300
cgggttggtta cttgtaagcc agcatcagtt gtaaagtacg tgtgtcaaaa taagaaaact 360
ctttcctttt tttttggttc aagaaaactc ttt 393

<210> 8241

<211> 142

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-043-Q1-E1-A2

<400> 8241

caaggcctag ttaaaactca aggcaaaggc gttcacctcc aaaattgtaa cctaaatcca 60
atgcatggac ttccggttga cagcctggga acgggtaaac ccttgtcggt tggaaattta 120
accgcgtagc gtcaaattta cc 142

<210> 8242

<211> 318

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-043-Q1-E1-A3

<400> 8242

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cgctcgagcc agacattaag aactataca tgaggctgga agtgctggag gctgaccggg 120
aatcgatgcy ccaggctctg ctgggaatgc gcactgagaa agctcagctt atgcttcttc 180
gggagatagc acaacagcta gccaaagacg ccgctccagt tggcactggg gctgggtctg 240
ttccagttgt ccaccatttg cccagaaagc aagctgtggg ggctgcagat acaacggtca 300
gggaagacaa gaagacag 318

<210> 8243
 <211> 401
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: LIB104-043-Q1-E1-A5

 <400> 8243

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cgggggaaca catgataacc tgtgtgcttg ttttgctagc gtcggtcgat cgatctcttg 60
tgtcaccgct gatgattggt ttgggtggca tgattatatt aagttaacta gtgagtagta 120
gcttccaact tgtatggatt gttgaatggt tcatggctgg atgggcatag catgcagcta 180
agcctctgaa tcgatcctgc tgtgatcctg aacaagggtt gactacatat aaatagcagc 240
acatatagtt tatcgacaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 300
aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaagg aaggaaaaaa 360
aaaaaaaaaa aaaaaaaaaa aaaaaggggg ccccccaaaa g 401
  
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<210> 8244
 <211> 428
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: LIB104-043-Q1-E1-A7

 <400> 8244

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tatcatggct tcaaaacgta tcctgaagga actcaaggac ttgcagaaag atcctccgac 120
atcatgcagt gcaggtcctt ctggcgagga tatgttccat tggcaggcaa ccattatggg 180
tcctcctgat agtcctctat ctggagggtgt tttcttagtg aatatccatt tccccccgga 240
ctacccttcc aagcctccga aggtatcgtt caagacaaag gtcttccatc cgaacatcaa 300
tagcaatgga agcatatgcc tcgacattct gaaggagcaa tggagtctctg ctttgacaat 360
ctctaagggt ctgctttcaa tctgtcact gcttaccgac cctaaccggg acgaacctct 420
cgtcctctg 428
  
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<210> 8245
 <211> 383

<212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-043-Q1-E1-B1
 <400> 8245

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 ccacgcatct tcgttattcg ctacgatcgg ctacaccgcc gtagtggttc atatgcatca 120
 tgtcgcaggc agtcaaatgg attattgaaa tgattcgggt gactaaagct tcctagattg 180
 tgaatgactt tctacattgg ggcaaacaga gggtcgcgt tgattttttt gcacttggtg 240
 aacaacttag ggggcaacac cattccagca agcccgaggc gccactggca tggatatggg 300
 tggtcgttat aacatatgga gaatatgcac atggaagtac tactattggg ccaatttatg 360
 ccagggtgtac atcaagatgt ttc 383

<210> 8246
 <211> 275
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-043-Q1-E1-B11
 <400> 8246

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 tgggatccag ctgctcaaac cgaaatccaa gaagaaacat gtgcaggcca agtccttgta 120
 gaggccgccg tcgtccaatg gccggggcgat cgagggggca gaggatgctg ttggtggtga 180
 tgtcactccc aagccgcac gtcgggcgcac ggagagcgac taggggggtcg ctgcgaagct 240
 gcaccgcgtg atgaataact cgccccggat ttcct 275

<210> 8247
 <211> 378
 <212> DNA
 <213> Triticum aestivum
 <223> unsure at all n locations
 <223> Clone ID: LIB104-043-Q1-E1-B2
 <400> 8247

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ggagtctgca cgcagcaaca aggcgtccag aagccccgat cagccgcctg agctgcgcga 120
 tgtgaacaag gtgaaggcgc tcgtcggcgc cttcgagacc gtcattggacg acaaccaaaag 180
 ccccgccacc gcccgcaagc cgcgggtcaa cctccacgcc tgaactacga gtacattcca 240
 ccagcatgaa gctcgatcgc gtgcgcctcc tcctttatcc cggctactct ttaatcacc 300
 atcaacccaa tttgtcgtcg tcgcacactt atctataatt acggtatcgc ttacattttg 360
 caaagaagaa gatgatgg 378

<210> 8248
 <211> 421
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-043-Q1-E1-B3

<400> 8248
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 tccataaata aaaatttaag gcgccaccac ttgaggttca aagggttcaa aggtagggaa 120
 caataagaac gggccaagaa gcaccatttt tccttccaaa tcacaggtgt ccttaatttg 180
 gccaaagttta ttgcacacat cttagtatt agcatgagga atacaaccat agtgattagc 240
 atggatagaa atttgatatg ggtcagaggg atttcgaatg gcacatttgt gaggacgaca 300
 atcctgcact aataaccagt cctgacagtg tactgtttcc aagtgttgg agcaagtgc 360
 agtcagctgc ataaatcaaa actcatagag tcaacttctt gtatgcagca ccgacacatg 420
 a 421

<210> 8249
 <211> 384
 <212> DNA
 <213> Triticum aestivum
 <223> unsure at all n locations
 <223> Clone ID: LIB104-043-Q1-E1-B4

<400> 8249
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 atccatatgt agtatggcca atgaggaaca gccaatggtg taaggtatat gcatatgaat 120
 aatcgctttc atctttatgt atataaaggc ggtgtttaca gcaccggcat agggaaagct 180

tggcctttac tagactcata cacctaactct gtcttctgca tgcctactga aacatttgaa 240
 tgctttcatg ccaaattgct taatcttacc aagatttgaa tgatgtcctt ttcatacaata 300
 atactcaatc tttagccttac agaggacaca agctcgttta agctctctga gcctgtacca 360
 acaacataca agtttaaatt tttag 384

<210> 8250
 <211> 363
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-043-Q1-E1-B8

<400> 8250

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 ccacaaagta ctcttatcat aaaacactac cgacttcacg aggggggaaac atcaacgagg 180
 gtaacgaact cttgtgcatt accatggatt aacacttaac tccttttgtc gaacaaatca 240
 gtcagtggca agtctccaaa ccacagaata ctttcgcacg tatgcatgac tgatttgga 300
 tgattccaca caaagcaaca ttgactttct cgaatccacg gcgggatctt gcatcagttg 360
 cac 363

<210> 8251
 <211> 439
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-043-Q1-E1-B9

<400> 8251

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 acaacagata tgctgctgtc agcagtcctc tctaaataga cactgcaatt atcgtataag 120
 tacatcattg ctgctgtcag cagtgtcttc taaatagaca ctgcaattat catgtacatc 180
 attgctgctg caatgaacca ttaagaatta tttaaaatct agcctaccat ctgcgttgtc 240
 gtcaacagag gggtgaggcg gagttacaaa atctgtatga gaaaccgagg gattgtccga 300
 gtcagcgaca tctttgttat cttcagagct gtcagaagca gctgagatgg cgtcacctga 360

ttctgaatgt gttctgtcca catatgcttc aggtaaggag ctctcggcca cgtcagcatc 420
gccgttatgc cgagcaatc 439

<210> 8252
<211> 390
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-043-Q1-E1-C1

<400> 8252

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ctatttagag agatgacagg aactggatcat tcacatggat agtcataaaa tcctagataa 120
aacttgtaga tcaactgaata tgatatgttt cattccttgc aatagatttg cgatataaag 180
atggcgatat tacagtcatg ctagcgggta gttgtggatt actagaaata cttgtgttga 240
tgtttgtgat tcccataaca tgcacgtatg gtgaatcggt atgtaacgaa gtcggagcat 300
gagttaatta ttgattgtct tccttatgag tggcgggtctg ggacgagcga tggctcttttc 360
ctaccaatct atccccctag gggcatgcgt 390

<210> 8253
<211> 436
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-043-Q1-E1-C10

<400> 8253

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gtcgcccta ctgctcaggt ggactcaaat ggctgcttag gttgcgggca aaactgttgg 120
gtgcgcagtc gcgggggagc cgcaggcaat caatggcgac aaggctctgct caatcaacgg 180
acagggtgaa cccgaggctc cggcttaggc aaaaagttca gaagttacta aactacaaga 240
ctattcagcg ctggcacaag aggtgggtgag gaatagcgac tacgacgagc aaagacgcgg 300
tgcagccggc aacaacgact gtcgcctgct ctctggtaag gcctccatct tttatctctt 360
tttgtgtcac tttgaactat acacaagtgc aaactagttc ggctcaagaa aagtataaac 420
aagacacaac cctctt 436

<210> 8254
 <211> 337
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-043-Q1-E1-C11

<400> 8254

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 tttgctatca ttaaggaact gattgctaca aatgaatttg tcaatattgt gcctaaaagt 120
 tttataatcc ctagaaagaa agaaattcct aagggaaata gatgcatcat cgaagaattg 180
 cctaccaaag atggtaatac ctagatctat cctcgttttt atgcctagct ggggggtgtta 240
 aacgatagcg cttgttggga ggcaacccaa tttaatTTTA atcccttgct tttttccccg 300
 gctaagtatt aaataaatta tttacccccg gttttgg 337

<210> 8255
 <211> 356
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-043-Q1-E1-C2

<400> 8255

gacacaaaac aaccgccccg gcgatgatgg acgagtacta cgtcggcgag atcgacgcga 60
 ccacgatacc caccaaggtc aagtacacgc cgcccaagca gccgcactac aaccaggaca 120
 agacccccga gttcgtcatc aagatcctcc agttcttggg cccctctcgc atactggggc 180
 tggccgtcgc cgtacggatc tacaccaagg cagactctgt ctagcaccgt catcttatac 240
 cagtcagtca gtcattcgga agtgtccaag agctgaataa gtttttagtg ggatttgcac 300
 attttgatcc agcgtcaccg tctgtcatg gaatctggga actgctctcg acccgt 356

<210> 8256
 <211> 317
 <212> DNA
 <213> Triticum aestivum

<223> unsure at all n locations

<223> Clone ID: LIB104-043-Q1-E1-C3

<400> 8256

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ctggacacct gtgtgttctg ggtccttcgt ctgggtgcta ctacatgtgt tgtactcctg 120
tttgctatat gaatggcatg tgggtgcttca aaaaaaaaaa aaaaaaaaaa aaataaaaaa 180
aaaaatataa aaaaaaaaaa aaaaaaaaaa aaaaaaatca aaataaaaga ttaaaaaatt 240
taattcacia aaataaaaaa taaaaaaata ttttaaaaaa taaaaaaaaa taaaaaaaaa 300
agggcctccc caaaaat 317

<210> 8257

<211> 452

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-043-Q1-E1-C4

<400> 8257

cgggtcgacg ggaaaccgga ctaccaatcc taaaaccccc cggcggcgga attcggcacc 60
caccaccaag ccgtccaaga agccccgatt aaacctccgg aacctccgga aggtaaacaa 120
ggtaaaggcc ccgctcggcc ccttcaaac cgtcaggaa aacaaccaa gccccgcaac 180
cgcccgcatg ccgcggtca acctccacgc ctgaactacg agtacattcc accagcatga 240
agctcgatcg cgtgcgctc ctccctttatc ccggctactc tttaatcacc catcaaccca 300
atgtgtcgtc gtcgcacact tatctataat tacggtatcg cttatatattt gcaaggagga 360
agatgatcga agggttatca tgatgtaata ataataatga tcatggaggg aaaaaaccca 420
cccgttgga aaaaaaaaaag cggccgcccc aa 452

<210> 8258

<211> 392

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-043-Q1-E1-C5

<400> 8258

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ggcactagcc ctggcactgc tcgggtgcttt cggcctcgcc atgccccgg ctgttcagtc 120

ggccccacc atcgaggcca tccaagctac atgcgccaag acaatacagc cagactcttg 180
 caaacacgtc ctgctcgcca tcatggccgc cggctcaccg gaggtgaaca gtgtccccct 240
 aatgtccctg caagtcgcgg caaagctcgc caagatggcc aacggcttcg ccaatgccag 300
 gctcaccacg gacccgcacc ccgccaatg cctcgcaaac tgcatcgaag accttcatag 360
 ggtggccaag gcatttgagg ggatcccagt gg 392

<210> 8259
 <211> 381
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-043-Q1-E1-C6

<400> 8259

attcgcgcgt cgacaggatt aattagattc atacccatca agtcgaacat aattgagggt 60
 catatacatg ctacagtccc ttctgaactc agaatactcg gctgaagaaa ttcagtctag 120
 tggatatgtg tctatatctg atctgcaatc tcagctcgac agtcttctgt aggccatact 180
 tttgatctgt tttgttatgg tgtgtectct gagtctgagt gagaaatgca ctcgattggt 240
 catctatagt gatgttactt ttaatcctgt catcaaattt aaacacactt tgatatgaca 300
 tcaattatgg tggatggcta atacactatt gttgctaata tgtttagcata tcagattgat 360
 taaatcgccc ttccaacaa t 381

<210> 8260
 <211> 419
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-043-Q1-E1-C7

<400> 8260

attccggtcg acgggcgaac tgatgatggc ccgacgcgtg catgcgcgtg gcgtgaagtg 60
 atggcacgaa gcgttcgatg gaggagtcca tggatgaata aatagtactg tagctactac 120
 taaatgtatt tcgctgccc tgctactact gtagtcatgg ttgtataata atggtgtcag 180
 tatctaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 240
 aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa gaaaaaaaaa aaaaaaaaaa 300

aaaaaaaaa aaaaaaaaaa ggggcccccc aaaaggttca aatttaattt ccccttaaag 360
 ggaatttaaa accccttcaa aaggggcccc aaatttaatt tcacgggcg tcttttttaa 419

<210> 8261
 <211> 380
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-043-Q1-E1-C8
 <400> 8261

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 atcatattca gattgtacac atttttctaa tcaaatttca tatataacat gttaaaattg 120
 gagttacagt ttaaaagata cagataattt agaaaagcat ttgttttatt taaatatctt 180
 ccaaaataat atttaaaaat atttaacagg taaaaataac aaaaaatata tggagagttg 240
 ttaaaaaggt tgttaaaaag atacatgatt ttctaactcat aaaaatattt ttttgtctgg 300
 aaaagatcat ttttgtatgg tcttctgtgg acgcaggtag ttgcgccctt atttcatcac 360
 tatttcttgc tatacatgtc 380

<210> 8262
 <211> 420
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-043-Q1-E1-D1
 <400> 8262

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 attctagcca gcggttagtc aaccgtggct cctaccatgc gtgggtggca cgaggtcctc 120
 catcggtgat ggcgatcggc gagaagacga gtcagagaca gaggacatca gaacatgctg 180
 attaaggaag atatcggtgt tgacatttta tgccacgtca gctccaacga ctgggccatc 240
 cttgtcataa tcacgatcga ttttaaagca ctcggtcatt tgggggtttt gaacagccgt 300
 ctctaaagtt ggtagttatc agcaccagaa taaacttagt agttttttga aaccctaccc 360
 cgaactgtag taattttatg tcatttactc gagttcaccg gaataatacg ttgggtttcc 420

<210> 8263

<211> 409
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: LIB104-043-Q1-E1-D10

 <400> 8263

 accacaagaa ccaacgtcag cgctcgccctg caagcacaac agaggattgg aactctgaat 60
 cggacgacaa ctgaagcaaa acaatcgacc atcgacagta aacctctgaa gaaatgttga 120
 aatgctgctg ctgcttggtt gattacagag agctcagtag gcaattaagg cctcacatct 180
 gacattagca tccgtaacat ttgctagcac tactcctagc agtacacaag atcacaagaa 240
 tctccatttg ctagcactac tcttagcagt acacaagatc acaagaatct ccatttgcta 300
 gcaactactc tagcactact cctagcatct gacattaagt tttgacggag aagagacagg 360
 aagaggaaga gagagcaata cctcaaggag tcatcaccca tggacgcat 409

<210> 8264
 <211> 389
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: LIB104-043-Q1-E1-D11

 <400> 8264

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 ggaagccaaa gtcgcctgtg gcgaatggtg ttaacgggga tgcgaagggt ccggcagaga 120
 aagccgctgc caccgctgct cctccggccg ttacctacgc ggcgaagggt gcccaaacag 180
 cagcggccga gaagaagcct gtggcgaccg agaagaagcc tgttgctgcc aacggtgctg 240
 tcaagaccgg agtagctgct tgatgcgatt acccgatcct ccagctagc catgaagaac 300
 aaacggacgg tgctggcgaa ccaggcgaga catgcggggt ccaaggtact gatcatcaaa 360
 ggtggcgtct ggaaagcggg tccgataat 389

<210> 8265
 <211> 392
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: LIB104-043-Q1-E1-D12

<400> 8265

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attctcacia aaaaataatt atccccttgt accattccat tgtattataa aaataatgtg 120
ccatgatttg cctttaggat gagtagattg cttgttggtt tgtgcggtgc aaacataaa 180
ctttggctgt agtgctcgat tttacatttt ttactcaa atgtcaaatgat totgaaactt 240
tttgtaatgt ctttatatat aatTTTTTTT cttttttcct aatTTTTTca gaatttttag 300
agttacagaa gtatggtgga tgttcaa atc tttacagact gtgtcctgtt ttcacatatt 360
gttggttatag cttcattatt tgcgtatgtt tg 392

<210> 8266

<211> 333

<212> DNA

<213> Triticum aestivum

<223> unsure at all n locations

<223> Clone ID: LIB104-043-Q1-E1-D2

<400> 8266

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gcttgcaagt ttgggttcta cgagttcttt aagaagacct actcagatat ggctgggcct 120
gagaatgctg cgaagtacaa gaccttgatt taccttgcan ggtcagcttc tgctgaggta 180
attgctgata tgcctctgtg cccctttgaa gctgtcaagg tccgtgtgca gacacagcct 240
ggatttgctc gtgggttgag tgatgggctt cccaagttca tcaaagctga ggggtgctgct 300
gggctctaca agggcattgt tccgctctgg ggt 333

<210> 8267

<211> 395

<212> DNA

<213> Triticum aestivum

<223> unsure at all n locations

<223> Clone ID: LIB104-043-Q1-E1-D3

<400> 8267

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ctttaagtt caagtaaac taaaactga tcaataacat gccacagcat ccaggaagca 180
 caatactata tcattcacgt gcggtcccg accctccatc aagttgaaaa ctagactagt 240
 gaaaatgtca attaggatgc ctctttgcat acaaatgtgc tcctagcttc aaaaaaatg 300
 cactcctaca tgtaccgcg aatgggtgtg agagaactag tgcgtgcatg caccgcttcc 360
 ctctgtgaga gtacaatata ctatgccaa agaac 395

<210> 8268
 <211> 428
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-043-Q1-E1-D4

<400> 8268

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 cgcttggttg gagacaacc aatatttttc ctttctgtta ttcaataaat aatttatcta 120
 gcctctgttt tggttgtgtt tgttgtgttt aattagtgtt tgtgccaagt agaaccgttg 180
 ggaaaacttg gggaaagtct tgtaatctt gctgtaaaa acagaaactt tagcgctcac 240
 gagaactgct gtaattttta ttttgaaagt gctatttagt taattctttt ttgaagatga 300
 ttaatagata aattcctcac gtccagcaat ttattttaga atttttgggg ttccagaagt 360
 ttgcgttagc tatagattac tacagactgt tctgtttttg acagattccg ttttctgtgt 420
 ggtgtttg 428

<210> 8269
 <211> 409
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-043-Q1-E1-D5

<400> 8269

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 ggaggcgggc tgcccgccg cgacatcact ctagccaccg gttggtcagc catggtggcg 120
 agcatgcgtg tcgagcacga ggtcctccat ggctgagggc gaacggcgag aggaagaaag 180
 agagacagag gagaagaaaa catgctgagt aaggaagata tcggtgttga cattttatgc 240

cacgtcagct ccaacgactg ggccatcctt gtcataatca cgatcgattt taaagcactc 300
 ggtcatttgg gggttttgaa cagccgaccc taaagttggg agttatcagc aaaaaataa 360
 aattagtagt tttttgaaac cctagcccca actgtagtag ttttatgtt 409

<210> 8270
 <211> 402
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-043-Q1-E1-D6
 <400> 8270

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 cagtcagtta gtcaaggcaa tgccgagtct tattttttaca aaagtccagg aagacaattg 120
 tacttcgtca acatgtgccca tttgcttgga agactacagt gttggtgaaa agataagggg 180
 gctgccttgt cgtcacaagt tccatgctgc ttgcgtggac ctgtgggtca catcatggag 240
 gacattctgc cctgtatgca agcgagatgc aaatgctgga atgtcaaatt tccctccatc 300
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 atcttttctg tcaatgggaa cagcatctcc tccaaggaca at 402

<210> 8271
 <211> 390
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-043-Q1-E1-D8
 <400> 8271

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 gccatcatga tcctgacggt gaagcgcgac aacatctgca gcttcatctc ggagaccaac 120
 cccgggcacg tgcggtcgtg ggagaccaag gacagccagc tgacgatggt ggcggaacgac 180
 ctgaagccgc gggcggtgct gacgtgcccg gagaagaagt tgatccagca ggtgggtgttc 240
 gccagctacg ggaacccgct ggggatctgc ggcaactaca cgggtgggcaa atgccacacg 300
 cccaaggcca aggagattgt ggagaaggcg tgcgtgggga agaggagctg cgtgctggcc 360
 gtgtcgacg aggtgtacgg cggggaactc 390

<210> 8272
 <211> 432
 <212> DNA
 <213> Triticum aestivum

 <223> unsure at all n locations
 <223> Clone ID: LIB104-043-Q1-E1-D9

 <400> 8272

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tgtgttgtga agttttcaag ttttgggtga atttttttga tggattatgg aacaaggagt  120
ggcaagagcc taagcttggg gatgcccattg gcacccccaa gataatccaa ggacacccaaa  180
aagtcaaagc gggatgcccc ggaaggcatc ccctctttcg tccacttcca tcggtaatTT  240
acttggagct atatttttat tcaccacatg atatgcgttt tgcttggagc gtgttgtant  300
aattgcgtan tttctgttta gtctaccaca atcatccttg ctgttcacac cttttgggaa  360
aaccatacat gaattgaaat ttgtaaaata ctctatgtgc ttcacttata tcttttgagc  420
ttgatagttt tg                                                         432
  
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<210> 8273
 <211> 425
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: LIB104-043-Q1-E1-E1

 <400> 8273

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ctctgttttg gttgtgtttt ttgtgtttta ttagtgtttg tgccaagtag aaccggtggg  120
aagacttggg gaaagtcttg ttgaacttgc tgtaaaaaac agaaacttta gcgctcacga  180
gaactgatgt tatttttatt tgaagagtgc tatttagcta attctttttt aagatgatta  240
ttagataaat tcctcgtgtc cagaaattta ttttagaatt tttgggggtc catatcttgt  300
gctagctaca gattactaca gactgttccg tttttgacag attctgtttt tcgtgtgttg  360
tttgcttaat ttgatgaatc tatgggttagt aaaatagttt ataatccata gagaagctcg  420
aatac                                                         425
  
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<210> 8274
<211> 399
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-043-Q1-E1-E10

<400> 8274

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cagctgcacg gtcaccacga cacaaggcac agggatgtca cgagaggatt gcaaaccttg 120
tctggtgatg tttccttcca ggggtggagca tttatgagtc tatggcttga tctgaggtgc 180
tatggtgaag ttggaactaa gttctgaagt ttgctgtagc aaacttggct gcgcactagt 240
gatcaacagg gatacaattg gagccaacga ggttgtctgg ggtgttaaga ttaggaaaga 300
ctaaaatccg ggggagtttg aggaaaaatg gaccaaggat taatatagtt gctttaaacc 360
ttcatatttg gtccaagacc aagattatga tgatgcact 399

<210> 8275
<211> 150
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-043-Q1-E1-E12

<400> 8275

ctggggtagt ataagaacat tgtcaccaca gtagaattgg tcatgaaatt tttgtccag 60
gtgaaaccat gtactaatcg aaacgggtgg taacgcaaaa aaacacgaga aaggcgtacc 120
gggtcaaagat aaagtaaaat aacgtacttt 150

<210> 8276
<211> 376
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-043-Q1-E1-E2

<400> 8276

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cctcatgatt gcgcagctcc tgccgaacgt gaaggagcca gaggcggcgc agccacttgc 180

cgggctggac agtactcttc ggagagccca cgagcttgtc gtgtcctgcc aggagaggag 240
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 caagatcgac tectacctca tectcttccc ggtgatcagc tatatcggca taacacgccg 360
 ccttgaacga atctac 376

<210> 8277
 <211> 304
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-043-Q1-E1-E3

<400> 8277

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 gtcattgcta cgctactatc gttgcacatc ccggtacatc gccaaaggca ttcacatata 180
 gtctcagata tcgagttgta acattgagtt gtaagtatat aacagtgtga tgatcatcat 240
 tagtacaaca ttgtccaag tgaggttata acaataaaag tggatcataga agccctcccc 300
 cccc 304

<210> 8278
 <211> 336
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-043-Q1-E1-E4

<400> 8278

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<210> 8279
<211> 390
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-043-Q1-E1-E6

<400> 8279

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ctgtgattct tttctttcta tacctttttg 390

<210> 8280
<211> 404
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-043-Q1-E1-E7

<400> 8280

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gggaagtgtc ccgactattg tcaactctggg gttgctggat cataacacat agtaggtgac 180
tatagcttgc aagataggat caagaactca catatattca tgaaaacata ataggttcag 240
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acatcaatct tagaacatag tggatactag ggatcaaacc ctaacaaaac taactcgatt 360
acatggtaaa tctcatccag ctcatcatcg tccagcaagc ctac 404

<210> 8281
<211> 291
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-043-Q1-E1-E8

<400> 8281

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atataattca cacaataaat cacatcataa caatggaatt catcggcagg ccgtatatcc 180
atgggatgat tttcgtacat agatctaaac aagaatggca tgtctacctt agggaaactt 240
ctatatacac tcactcattg tttacacata cgtcagggtcc aagactccaa t 291

<210> 8282

<211> 429

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-043-Q1-E1-E9

<400> 8282

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cgggatttgg cagctggagg gagttttcgc gcgcgttgta atttcgggag caaggcgcgg 300
gttgtgaagg cgctagtgtt gggagcacga tatctaaatt ttcgggatat aacaagacgc 360
gggttgaatt ttaggtacaa gcctaacatg tagtaatatt gtacttgtac gtaccaaacc 420
aattcgcac 429

<210> 8283

<211> 364

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-043-Q1-E1-F1

<400> 8283

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taatactacc agagtggaca atggcaaagc gtaccatgca tacacaacgg aaaagaagcc 180

cgagcctgcg cattgaccaa ggttgtttac ttgtagcaca aatcatgcaa accagctcgg 240
tgaatTTTTg agctgatgcg tgctgttatg tctgttttgc tgatgcacct agttcctttg 300
caaagctgta gtaacttgtt ttgctcgagg gcaatacaac agacctggaa taaatatctt 360
gttt 364

<210> 8284
<211> 314
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-043-Q1-E1-F10

<400> 8284

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gggccgcatg atattgaggg cggctatgat gatgaagacg aggcggctct cggctttggg 180
atcacgctct tctggctcat catcatgacc atcataatcg ccgtgctctc cgagtacgtt 240
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atcctgttcc ccat 314

<210> 8285
<211> 406
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-043-Q1-E1-F11

<400> 8285

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cgcagactca gtctcttctc cgatgccgca ttacacagag catctgagac acaattgagg 180
accatggtaa acaattcttc tttactgcca cttgtttcc gaaaaccatg catatactgg 240
caccaatggc aggattgttg atgaaataaa cgatgagcat tacctgtcga gcagcgtcgc 300
gggaacaacc gccgccgcca tggttacgat cactgatctc ggcatcttga tatgagttta 360
gctgacgcta aataacttca atcgcggcag ctttgcttcg atgaat 406

<210> 8286
 <211> 433
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: LIB104-043-Q1-E1-F12

 <400> 8286

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getaatgttg attccatgga ttatacgcac tctcaccttc caccattgct agcctctcta  180
acaccgcgca cttttcgccg gtatcaatca cccaccatat accttctctca aaacagccac  240
catacctacc tattatggca ttccatagc cattccgaga tatattgcca tgcaacttac  300
caccattccg tttattatga cacgctccat cattgtcata ttgctttgca tgatcatgta  360
gttgacttca tatttgtggc aaaccacct tcataattct ttcatacatg tcaactctga  420
ttcattgcac atc                                                         433
  
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<210> 8287
 <211> 394
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: LIB104-043-Q1-E1-F2

 <400> 8287

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accatcttga aaatttgcca gtttacaaaa gtgaaathtt ggcaattgca ccaaagcttg   60
agatccctat tgtctttttg atttctccca attacactat agcgggtgaat tttgcgctta  120
ttacggacta tattgatggg ttgcattcta ctattgcaca tgatgatttt gatagatata  180
atatgcatgt gcatgctgct cctacttgca attattatga cagagtaact acatctccgc  240
ctctctatgt ttccaatagc ataaaattgc acgaaactgt ttatactatg cattggcctt  300
tactttgtgt gcatgaattg ttcatttatg acatgccgat gcatatgaag agagttatac  360
cttcgtaatg acatgagata caatactttg tgct                                                         394
  
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<210> 8288
 <211> 347

<212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-043-Q1-E1-F3
 <400> 8288
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 tcccctccgg gttttacgcc aacaacgtgg atacatcgac gccaccaacc ggcgcggcga 120
 cctcacctac gagctcggcg agaattgagtt cgccgacctc acccaggagg agttcctagc 180
 caggtacgcg tcgtcctacg atggggtcgg tgatgatact ggcatacagt tgctgtggg 240
 cggtggcgac gccgagctgt ggtcgtccgg cgcgacaat gatagtcctc tggaggctcc 300
 gcctcccagc tgggactgga gatccaaggg cgccgtcaca ccggtca 347

<210> 8289
 <211> 381
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-043-Q1-E1-F4
 <400> 8289
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 gtacattttt ttatcagatc gtattactag tgtgtgttac ccatctccat gttagcatcc 120
 caagcccata tgggtgggtcc ttccatccag cccggcccac tctgacgacg caggtctcta 180
 acacagacga cttcttgcca ttcaccaaca catacatgtc actataatgg atgaatgtgc 240
 aaatctagca agagggcata tatcacttta gttcgatgat ctgccatttc taaaacaact 300
 agtttcaatg agtgaaatta gaccatgtgg gcaggttggg aagctaccga cacgtgaatg 360
 caaacgatga gtgaaatcag a 381

<210> 8290
 <211> 276
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-043-Q1-E1-F5
 <400> 8290
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aggagcatca ccatattcgt tggcttcgac atcatacagt tttttgtaat aagtttgtgt 120
 gtgggtggat ggctaagtgt gtctcgtatg gattatcggc attctcacct tcaatgtatt 180
 gcaagactct cgacaatggc acacgtttct tcgttactgc tcacttgttt ccgacgtcct 240
 tgaatatact gacaacagtt acctaatagt ggattt 276

<210> 8291
 <211> 414
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-043-Q1-E1-F6
 <400> 8291

attcgcgggt cgacgggtga ttgactgta cattagggac tgactcctgt ctgcaaagt 60
 tcagtgggtg tacatatggt aaatgtgaag ttatgaaaga caccactgtt ggcataaaat 120
 cctatgcagg tattgctgcg gagggtatcg gaaacggagc gctcttgatg gcaatgaatt 180
 accatgtcaa tacatccaat agcgctttgt gggattacat gccaatgggt ttccacatct 240
 gaccttctcc gaaatttttg caccgtactt ccgccatgtt aggccgcgtt tcactttttg 300
 cttgttatga tagtatttca accctttttg tgggaaaagc tgatattggt tagatgttgg 360
 gtatagaaga gccatagagg gaacctaac aacacatttt cggcagcacg gtcc 414

<210> 8292
 <211> 396
 <212> DNA
 <213> Triticum aestivum
 <223> unsure at all n locations
 <223> Clone ID: LIB104-043-Q1-E1-F7
 <400> 8292

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 aaaggcgagg atgtgaactc cctgcagccc aaggaaactga tcgccattga ggaagctctc 120
 acgaacggcc agaccaacct cagggacaag atgatggacc actggaagat gcacaggagg 180
 aatgagaaga tgctggagga ggagcacaag ctgctggctc tgaggatgca ccagcaggac 240
 gacctgagca gcggcatgag ggagatggag ctcgggtacc atcagggtag ggatttcact 300

tcccagatgc cgttcacctt ccggctgcag ccagccacc ccaacttgca ngaagacaag 360
taggccaccg aatccctgca cggncgtgtg caactg 396

<210> 8293
<211> 376
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-043-Q1-E1-G1

<400> 8293

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agcaatttgg gtgaaggagt tcatcaccga cctaggagtc ataccaatg tgcgggggcc 120
gatcaaacac ttctgtgaaa aactggagc tattgccctt gccaggagc ccaggtttca 180
caagaagacc aggcacatca agcgtcgttt caactccatc cgtgaaaaag ttcaagatgg 240
agacatagat atttgcaaag tacatacgga tctgaatgtc gcagatccgt tgactaaacc 300
tctctcgga gcaaaacatg atcaacacca gaactctatg ggtgttcgat acatcacaat 360
gtaactagat tattga 376

<210> 8294
<211> 398
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-043-Q1-E1-G10

<400> 8294

ggggccacgg gctgattcaa attttgaact gggggcataa aggtccattt gccattttc 60
acctggtcgg aacatattcc ccagcgactt acatttcgga acggaggag tagtgactat 120
ctatttcata tctttattag tcatatgtat ccccgatcgt ttgctccatc agggataacc 180
ataaaataaa gcagatgcat gttggttatt gaagagaccc agaggagcaa cttctgaatc 240
ttaaatatgc caaaagcaca ttcaacattt aaataattgt gtttaccttt tgattaccac 300
aggggtgggta cagactggtc cttctgacct gtgatgataa ctcaagggtg ggcagcggcg 360
gctgtggtag caaacggtgg tggcggcaga aggggaga 398

<210> 8295

<211> 401
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: LIB104-043-Q1-E1-G11

 <400> 8295

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gggggatgcc acggaagcat cccatctttc ttcaacaaat atcggtatgt tttcgttttt 60
gtttcgttca cgtgatatgt gtaaactcttg gagcgtcgtg tgctttttat tttttaataa 120
tgcaccatgc tggatgaga tagtccatgg ttggatttat agaatgcttg tgcttcaactt 180
atatcatttg aagtttggtg tgccgtgttc tcttcacata cgaaaccgtt atttgtagaa 240
tgctcttttg cttcacttat atttattaga gcatgggtctt ttgtagaaag aattaaactc 300
tcatgcttca cttatatcta tttagagagt caacaagaat tggtcatttg catgggttagt 360
cataaaatgc tacataaaac ttgtggatta ctgaatatga t 401
  
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<210> 8296
 <211> 445
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: LIB104-043-Q1-E1-G12

 <400> 8296

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agctgtctaa atccttgtgt tgtgttgctg ctctcgatcc cgctcaacc ctctcaagct 120
actacataga tgcgctggcc tcgcgactaa gtccgtgacac taaggacatc tgccgtgaca 180
attccacgac acggcccatg tatggcccat gacgtctttc ggcccatatg aggcccttat 240
tactctcggc ccattaacga cccgtggtaa aactggcccg taatgaacag tgtaccactt 300
tataccatt aacggcccggt ggtgaaactg gctgtaatg aacagtgtat cactttatac 360
ccattaacgg cctattattc cgttggggcg tttccagccc atgttatctt tcggccttct 420
cggggcccac ttgttcttgg gctca 445
  
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<210> 8297
 <211> 402
 <212> DNA
 <213> Triticum aestivum

<223> unsure at all n locations
<223> Clone ID: LIB104-043-Q1-E1-G2

<400> 8297

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tccttctttg tcagccgagt tgacagtctg atcgacaaaa tgcttgagaa gattggaaca 120
ccggaggctc ttgccctgag gggaaaggct gccgtagcac aagcaaagat agcaaaccag 180
ctttacctga agaaattctc tggcccaggg tgggaggctt tggggaagaa gggagccaag 240
aagcagaggt tgttgtgggc atccaccagc gtgaagaacc cggcttactt ggacactctt 300
tacgtcgatc ctctcatcgg acctgacacc gtctctacga tgcccgaaca agctctggac 360
gcgttcacgc accacggcac agttgctang acaatcgacg ct 402

<210> 8298
<211> 404
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-043-Q1-E1-G4

<400> 8298

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attccgaatc aagaaatttg ttgtggaatt tgtcaattga gtaaagtaat aatattaaga 120
actagatcat ctaaccccat tgaatgaaaa aatgaaattc gattttcaag gaaatttttg 180
aataagagat aaataaacia ttgaattgaa aaaaaaaac ttctttctat ttgggataat 240
ttctttttca ataggaccct ctttttggag tgaacgatcg aatattcccc tattccttct 300
tattttaact gattgtattc catatggaat aagaggagaa caaaagcatt ccacgacctg 360
ccaaggggct gttaaaaaaa aaagaaagct cttccttgaa tttta 404

<210> 8299
<211> 383
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-043-Q1-E1-G7

<400> 8299

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aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaattaaaa aaaaaaaaaa 120
 aaaaaaaaaa aaaaaagggg gccccccaaa aggttcaaac ctaacttacc cttaaattgca 180
 acttcaaacc ccttcaaaag tgccccccaaa ttccatttca ggggccttct tttaaaaact 240
 tottaacggg aaaaccccg ggttaaccaa attaaacccc tttgaaaaaa atccccctttt 300
 cccaagctgg cttaatacca aaaaggcccc aaccattccc ctttccaaaa atttgcccac 360
 cctaattggc aatgggaacc ccc 383

<210> 8300
 <211> 422
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-043-Q1-E1-G8
 <400> 8300

agagggcgtg ataactcttc ggatacattt ggacaaacaa gacatcggac gtagggggaa 60
 ttcgttgaag cagttttcaa gaccgatgac ccaagacgaa gaagagctcg gaagatccga 120
 gggatgtctc caaacttgaa gactgggtta ggagctactg atggtgtctc agaattgggg 180
 tcattcacca tgctgtgtcc cggccagggt ggccggggccg aggaccccat gtcggttcac 240
 tagtggacca catcaaggcg gaccatggct tgaagaagga atacttccga agacttggcg 300
 cctactccaa atacttagat gtcgtctaca acacaattac cttatacata gccgaccttg 360
 gtataaccct agccaaccct ggtatctata taaaccaggg ggacagggct cgtacatgaa 420
 at 422

<210> 8301
 <211> 435
 <212> DNA
 <213> Triticum aestivum
 <223> unsure at all n locations
 <223> Clone ID: LIB104-043-Q1-E1-G9
 <400> 8301

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 ctagcatgca cgtatgggta aagttgtgta acaaatttga aacatgaggt gttcttagat 120

tgtgcatcct tatgagtggg ggtcggggat gagcgatggg attttcttac caacctatcc 180
ctctaggagc atgcgcgtag ttcttggttt ttgatgactt gtagattttt gcaataagta 240
tatgagttct ttgactaat gttgagtcca tggattatac gcacttttac ctttccatca 300
ttgctagcct cttcggtagc gtgcattgcc ctttctcacc ttgagagttg gtgcaaactt 360
tcccggtgca tccaaacccc gtgatatgaa acgctctatc acacatanac ctccctatat 420
cttctcaaaa acagc 435

<210> 8302
<211> 253
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-043-Q1-E1-H1

<400> 8302
cttgcccggg tttcccttgg ccccttggg ttggttcaact tcctcttttc ctttcccttt 60
tggtttatct ttctcttctt gttgtggggg ggtccccctg tgggttctct cttttcttct 120
ccgtcttttc gccttcttgt cctcttttgg ttgtctctct ccttcttttc ctggccctcc 180
tttttcttcc ttttcggcgg ggtccctcct gtttttcccc tcttttctcc tttttctgct 240
ttccctcttt ttc 253

<210> 8303
<211> 421
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-043-Q1-E1-H10

<400> 8303
ggcgggggag gattctgcag ctctcaaact tcaaggatga ctccagtcca attgcctggg 60
actgttctgc gtgggttcgc acatatgggc agtttttggg ggaaagactg gaatgcttca 120
ggatcctgaa atatgatgtt gaggtgagc gtttatccaa acaaggccaa ggtcctgaaa 180
agggacacag tagaaccaga gacctagatt cccaggacct gttagagcag ttgccagctt 240
tgcagcagtt actgtatcgg cttgttggat gtcggccaga aggagctgca aataacaact 300
acttggtgca atatgctcta gctttggtgc taaaagagag tttcaaaatt tattgtgcga 360

taaatgatgg aattattaac cttgtcgata agttttttga gatggcaaga catgaagcac 420
t 421

<210> 8304
<211> 400
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-043-Q1-E1-H11

<400> 8304

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cgagcgagga tagcgaaatt aggggaatcgc ctgaaagatg gcgaaagccg tatatgtgga 120
ctgaatcttt gcaggatgct tggagacaag tttctcaaag agcaagatcc aaggttcagt 180
aaagaaccat atgtgagccc agtagttcag atctcgaaat cgtgctcagc ttttgcgctt 240
atcgctagcg atggcctatg ggatgtcatt accgcgaaaa aggcagcaca gcttgtcctc 300
gattataagg agaggaacat gggccaagaa atctcagcgg acggagtagc agaccatgtg 360
cttagtgaag ccaggaatct gcggacgaag gacaacacat 400

<210> 8305
<211> 330
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-043-Q1-E1-H12

<400> 8305

ggctaataag gaggaccttc ctttaagtgc cgcggagagg aagctaattc atgcatacaa 60
cgagaagcct gtgctttcta gacctcagca tcagtttttc ctgggtgata actactttga 120
ggttgacatt gacatgcata gatttggtc catctcaagg aaagggtttcg agacattcct 180
ggacaggcta aaaatatgca tgctagatgt tgggctaacc atccagggaa acaaaccgga 240
agaattgcct gagcaggtct tgcgctgtgt taggttgaac gggatagatt atgcaaagta 300
tcagccactg atgacaaacg gtgcttgaac 330

<210> 8306
<211> 261
<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-043-Q1-E1-H2

<400> 8306

gcgcggcaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 60

aaaataaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaagagga aaaaaaatt 120

taaaaaaaaa aaaaaaaaaa aaaaaaaaaa gggggccccc caaagggttc aaccttaatt 180

tccccttaaa ggaaatttaa aaccctcca aaggggcccc caaatattaat tccaggggcg 240

tctttttaaa aacttctaaa g 261

<210> 8307

<211> 339

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-043-Q1-E1-H3

<400> 8307

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aaatttaatt taacttttgg gttaattttc caataattgt ggtttatatt caaaaaacca 120

aaaggtaaaa ttcatgtgag ctttagaaaa aattataaaa atataaaaag atgtcgccgt 180

atgttaaaat agatctatat agttccatta aaaatatgta cgtaatatat gaaagaaata 240

ttcatgtgtc ttcataaaaa tgtcattgag gattttaaaa atgtttatgc aatgttaaaa 300

aatgttgtga gcagtaattt ttctgtttcc agtaaaatt 339

<210> 8308

<211> 394

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-043-Q1-E1-H4

<400> 8308

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aatcgtcccc accccgaagc cccaggagag ggtggtgttc gtctctcact tcgtccgcgg 120

gctgggattc ccctcgacc cgttcggtccg tggacttatg ttctactacg agcgggactt 180

acacgatctg gcccccaacc ccacccctcaa catctcggca tttattgtcg tgtgcgagggc 240
 cttcctctgc ataccacctc actttggact atggctgaag accttcaatg tgaagccaaa 300
 ggtggtgagc ggtcagcaac cagagtgcag aggcgccatg gtgggcaaga tgcccaatgt 360
 cacctggccc gaaggatcct ttgtggagac tgtc 394

<210> 8309
 <211> 430
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-043-Q1-E1-H6
 <400> 8309

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 atacaagaag cgcgacgacg acgacgatga tgagaggaag ccacggcaca agaagcacga 120
 cgatgatgac gacgacgatg gcgagaggaa gccgcggtac aagaaacgtg acgacgacga 180
 tgatgatgag gatgacagga agccgcgtta caagaagcgt gacgacgacg acgacgatga 240
 tagaaagcca cgttacaaga agcagcagca cgatgacgac gacgacgatg agaggaagca 300
 gcgtcgcggg aacaaccgcc gccgccatgg ttacgatgac tgatcaaggc atcctgacat 360
 gagtttagct gacgctaaat aagtatagtc gcggcggctt tgcttcgatg aatcaacaat 420
 tccgtatttt 430

<210> 8310
 <211> 416
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-043-Q1-E1-H7
 <400> 8310

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 ctcaagcaac agcatttcat tggacactta cagttctttt catagctatg gcaccaaaga 120
 gactgacagc tgggtgaggc cacacctgga gcatgatggc tcagggtttgc tgctgcaagc 180
 atacgatgat gacattgaga aaatctgcta tgtgatgaat gagctagcag gtggtggtgt 240
 cgatggttct gctgatcgta tcatggatga gacgctttac tcgaatggca tcgatgattt 300

catgattttg ccagcaggca agaatgggga gaagaagaag cagctaacca tcgatcaaga 360
attcgagcag tactttctcaa aactcatgct ttagcgtgac cgtaacagag aattta 416

<210> 8311
<211> 432
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-043-Q1-E1-H9

<400> 8311

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aatcacgcaa ctgaagaagt cgaaacccgg ggcgaagttg gccaacatga aagctgacaa 120
acctaaatgc cgggtgatagg ttgttcgccg ctgtcgtgcc gtctttgaac ttggtggaga 180
cgcagaagca gtggcggagc taggatcaag ccatgaccgc ggcaagcccc aggccaatca 240
cttgggtacag tgctaaacag tgtaaaatcc actacagtaa acgaaggagc caagcctcag 300
gaccaggcc gccgcccggg cagcctgggg cttgtctccg ccactatgca gaaggagaac 360
ggtggcgccg tgaagacctt gacgactgtt gccatgacca caaccatgat gattgtgttg 420
gtaataaaga ta 432

<210> 8312
<211> 390
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-044-Q1-E1-A1

<400> 8312

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cgctggattc ttcgtcagca ccggcaccca gggcggcggc caggaaacca ctgcttggac 180
ggcaatcacc cagctggtgc accacgggat gctgtttatt cccatcggct acacctttgg 240
ctcgggcatg tttaacatgg acgacatcag agggggcagc ccctatggag ctggagtttt 300
tgctggtgac ggtagcaggc agcccagcga ggcggaactt gccctcgccg agcaccaggg 360
caagtacatg gccgccttcg tcaagaagct 390

<210> 8313
<211> 446
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-044-Q1-E1-A11

<400> 8313

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gtatgagtat atatccttca atatatagta ggcacatcta ctctatctag tatacaaaca 120
ttcactttac aacgtatcta ttgttgaaaa gcagctggaa atatatagat gcgtggagca 180
agttgtgcat aatatcacca tcactaattg ttgaaaagca actggaaaat tgtaatttaa 240
gaaacctcag agcattgatt caaatatcac ccatcatagc tcacaccatc actaacatctt 300
agagcaacat gtacgagtat ctatcctctc aatatatagt aggcacatct actctatcat 360
acattcactg tacgacgtgt ctgttgctga aaagcaaccg gaatagatat agatgcatga 420
aacaagctgt ggacattgtg tggcga 446

<210> 8314
<211> 439
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-044-Q1-E1-A4

<400> 8314

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tggtgcagtt gaagtagaag atgcatgcgg tgtccatgat gaaggctcgg gatgaggaca 120
tgactacctt ggatatgacc aaaaatattg catatatgca tatttgtcag gtgatttcta 180
gtgcaaacta ttcaataatc tatttatgtt atccagaaca aaataacttca cacacttttg 240
tgttttgtct aattgcaggt gtatgggaca tttgtagaat ccacatatga agataaggaa 300
gaaagagatg tttatttgcgt gtccaaaaag ttctctcacg tcacttttgg cccaagagaa 360
gatagagtcc aagtctctca cgttctggat tcagattcgg actgcacaga cacacctgac 420
tcaaaacgca cacaagttt 439

<210> 8315

<211> 372
 <212> DNA
 <213> Triticum aestivum

 <223> unsure at all n locations
 <223> Clone ID: LIB104-044-Q1-E1-A5

 <400> 8315

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cgggtaccaa cagtcacatt caagtaccgg cagtttcggt aaccccagtt cctctctttt 60
gattgaacag aaataagatg acagctgggt acacataagt ctttccaatt ggcagtaagg 120
agctgagata aagatcacca caacgtgatc caaagaccgc aggtggcacc gcacgcgcag 180
cgggcgacgg caaccgccag ctaccgtcg ccaggcggaa gcgagctagg cttccgcaga 240
gccgcaatga tcttccggca gcatgagact gncaggatgg gttgtggtgc tgggtggcttg 300
gcgagccaaa tcatgcctcg gatgcatgat gccaaccttg gccgggaaga agacangacg 360
acggcgccat tg 372
  
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<210> 8316
 <211> 427
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: LIB104-044-Q1-E1-A6

 <400> 8316

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gcgtggttgg aagatgtcca aggcggttac caagaagatg cagaagctca acgcctactg 120
accaaactca ccagttcgcc ggagggtttt gatgggtttg tgctccagga cggcatcatc 180
cgccacaggg gacgagtgtg gctgggagca aatgtggctt tgcaaagaca ggtccttgaa 240
gcgttgacac caggcgctat cgggtgggcac tctggtttca atgccacgta ccggcggtgtg 300
cgacatctct tcacgtggcc gagcctgaaa catcacgtga agttattcct cgaagcgtgc 360
cagacttgca agcaagccaa gccagaaagg attcgttacc cgggattgat cgagcctctt 420
cctgtac 427
  
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<210> 8317
 <211> 436
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-044-Q1-E1-A7

<400> 8317

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ttttgtagaa attgctagtc tatcatgctt cacttatatt attttgagag tctcttagaa 120
cagcatggta tttgctatgg ttataaaatt agtcctagaa tggtaggcat ccaagttggg 180
tataataaaa actatcatag gaagtgaatt ggatgctatg atcaatttga tacttgataa 240
ttgttttgag atatggaggt agtgatatta aagtcatgct agttgggtga ttatgaattt 300
aaagaatgct tgtgttgaag ttagcaagtc ccgtagcatg cacgtatggt taaagttgtg 360
taacaaattt gaaacatgaa gtgtccttgg gttgtgcatc cttatgagtg gcggtcgggg 420
acgagcgatg gtcttt 436

<210> 8318

<211> 398

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-044-Q1-E1-A9

<400> 8318

cccggtcga cgggcgcata gagtacaacg agttcgtggc gatgatgcag aagccggcgc 60
tggggctggc gaagaaggcc ggggccgggc tggagagcag cttcagcatc ggcttcaggg 120
aggcgctgag gatggcttga aggaggagga ggagctaggt ggtagtcatg gcgacgctaa 180
tttcgttctg ctgctgaag acgcttggtg tagagacatg gtgaggcgat tgagttttca 240
tagggctgaa gtggcagcag ctccctggcg gtagcggagg gtcgggactc gggacaacat 300
gtgtgtagta gaggcaggca ggcaggcccg gtgattttct tctcgctact ggattggttc 360
aattgtgtat tatactgagt ataaactaca gaaagctt 398

<210> 8319

<211> 453

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-044-Q1-E1-B1

<400> 8319

taccgggtcag ctccgggtgc cggggagcac ataattgacg gcgagcacia ggagggcatg 60
atggagaaga tcaaggacia gatcagcggc gacggccacg gcgacggcaa gaaggacggc 120
gaccacaagg agaagaagga caagaagaag aagaaggaca agaagcacgg cgagggccac 180
aaggacgacg acggccacgg cagcagcagc agcgacagcg acagcgactg agccagctcc 240
ggccgcgctc cggcagcagc gtgcagtgtg ggcgagatcg atgaacgctt gggagaagtg 300
tggcatacat atatgttgca gggtttgag cgtgtggtag catatgtatg taatgcgtga 360
catgtctcat ggatcttggt atgtataata attagccggc tgcactgcac tgcacgggtgc 420
ttgtaataat aacgttaatg aatcatgttg gta 453

<210> 8320
<211> 441
<212> DNA
<213> Triticum aestivum
<223> Clone ID: LIB104-044-Q1-E1-B11
<400> 8320

atgcccgggt cgacgggtgg cgccaaggct gaggccaggt tcaagcagat aactgaggcc 60
tacgaggtac taagtgatcc agaaaagcgt gcaatttatg accaatatgg tgaagaaggt 120
ttaaagggtg tgctccacc tggttcgcaa agccggaccg ccacagcttc tggctcaagt 180
gggccaagta atttccgtta caatcctagt gatccagatg atatctttaa tgagttcatg 240
gcgagcaaca agccatacac ctttgatcaa gaccgaaggc gctttcaacc agcacaccgg 300
acctcagcag tgaatggtcg aagtgaagct tcttccagtt ctcagaagga gcctggtacc 360
agtacaagcc atctggaaaa gccaccgcct gtggagaaga cttactttg cactcttgaa 420
gagctgtata atggaacaaa a 441

<210> 8321
<211> 252
<212> DNA
<213> Triticum aestivum
<223> Clone ID: LIB104-044-Q1-E1-B3
<400> 8321

ggttccattc tacctttcga gagcattgct cgggtcaactt ctttaaatgg cacagacaga 60

tgatcacccc gtgttcgcct gaccatgcgc tcaccttttc gacgcgcaat tctgcgaccg 120
aagctgccat aatcatataa tggatgtagt taaacaaggg atatagggaa accaatttgg 180
aagaaaggtg aatagatata gccagtaccg gtaattttcc cgggcggtaa atcacccaag 240
gaaccagaac tc 252

<210> 8322
<211> 441
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-044-Q1-E1-B4

<400> 8322

acggtcgtag cttccgggtg cacgggttga taaaaattac tatagactat tctgtttttg 60
acagattctg tttttcgtgt gttgtttgct tattttgatg aatctatggc tagtaatgga 120
gtttataaac catagagaag ttggaataca gtaggtttaa caccaatata aataaataat 180
gagttcatta cagtacctta aagtgggtgct ttgttttctt tcgctaacgg agctcacgag 240
attttctgtt aagttttgtg ttgtgaagtt ttcaagtttt gggtaaagat ttgatggatt 300
atggaacaag gagtggcaag agcctaagct tggggatgcc caaggcaccc caaggtaaaa 360
tccaaggata accaaaagcc taagcttggg gattccccgg aaggcatccc ctcttttgtc 420
ttcgtccatc ggtaacttta c 441

<210> 8323
<211> 391
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-044-Q1-E1-B5

<400> 8323

gggaggggaac atcggtgatc tctgccgagg tgaagcctcc agtaaagcag caagtgagcc 60
cggcgccatt caaggctgcc gtggagaacg tctacatgac cgacgcgatc acacgggctt 120
ccaagatcat ggctcagtgc agcgcagcct tgttgaagag gtgagaccct gcgctaggta 180
cgtcgccttg aggaagttga gtcagcggca gacgagagtt ttagttgctt ggcgagttca 240
ctcaccagtt gtcgttgctt ggttggttgg gagcataaga tttggagtgc ctctacccta 300

gcgagatgcg gggagcagcg aaacgtgaaa gcagtgcacg tttctggaac gtgtgagaag 360
cggagcatatc ttagtaagct tgttttgtcc t 391

<210> 8324
<211> 426
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-044-Q1-E1-B8

<400> 8324

ttccgggtcg actctgacga caaaaatact tgggtgttgg actggatgac cgaaaacact 60
cattataagg caccggcctc tgaattactt cacgccctgc ccatcagtc tccacctgaa 120
ggagctcgtt gcgtgtacca agagcctgaa ttgactgccc attatatgca agtaattatg 180
aagcctctga agcctgggtc agctccaagg accaaattcc tcgtgaggca attgctctat 240
gtgccaagaa ctgtctatcg cattctgacg aagacaatga gtccgatcaa aggccacgac 300
tcgtctgata aggaaattgt tggcatcatg aagaatctgc tattcagtgat catacatgcc 360
attcctgtca actagcatga tttcttcatg aggactctgg aaaatgtcgc actctctccg 420
tttgag 426

<210> 8325
<211> 422
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-044-Q1-E1-B9

<400> 8325

cgggtcgacg gggtagaaga gctttgtcaa ctttgtcaat atgaacgatt ctagctctag 60
tgaccgtacg atgtccatcc aacggccgta gtgcttcttc aacctctggt cttcttgctc 120
tagccgcca aagcagcgtt ggtcgtgccg catgctcctg cctcccggtg ccggctatgc 180
tgccgcagag gcctcaccgc cccctactat tcccaccgct ggccaggccc tacggcgacg 240
acagcctcac accgcagccg aaccagtga cctcgtact cctctccgag cgggcttcca 300
ctgcgcgtct tccccggctc cgcgtcgtcc ccttcttagg cctcgcgctc gtccaccgcc 360
gggtgctctc tgccgcggcat ggtcaacgtg gtcaaggaac gacttccatc ggaagagtac 420

<210> 8326
<211> 438
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-044-Q1-E1-C1

<400> 8326

gggtgcacgg gtagcctcta aggtaccgtg cattgccctt tctcaccttg agagttagtg 60
caaacttcgc cgggtgcatcc aaaccccggtg atacgatacg ctctatcaca cataaacctc 120
cttatatctt cctcaaaaca gccaccatac ctacctatta tggcatttcc atagccattc 180
cgagatatat tgccatgcaa cttccaccat catcatcatg acatacatta cttttgtcat 240
attgccattg catgatcatg tagttgacat cttatttgtg gcaaagccac cttgcattat 300
ttttcataca tgtcactctt gattcattgc accatcccag tacaccgccg gaggcattca 360
tatagagtca tatattgttc taagtttcaa gttgtaatct ttatgttgta atcaatagaa 420
gtgtgatgat catcatta 438

<210> 8327
<211> 433
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-044-Q1-E1-C11

<400> 8327

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gcggttgaagc acggcccgtg agtgggtctcg acgttgggga cacggtatgc tctcctcttc 120
ctagcccttt ccttgctacg gccatgagac ttcggccttg tatatgtttg catgttcaact 180
tgttgttgat catgtggtgt aggcatttca atctttggtg gcattcaagg cccggcacat 240
gacaagccat tcaactcttac gcattgttgg acgctcatcg acaattgccc taagttcaag 300
gaccaatacc gtgaactaca aaggaagaga tgactgaaga cagccaagtt cgccggagggt 360
ggagatggcg aggcgttgaa gaggccgagg ggcaagacca actccaaggt tgatgacata 420
cgtgatgcct cat 433

<210> 8328
 <211> 416
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: LIB104-044-Q1-E1-C12

 <400> 8328

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ccgggtcgac ggggtgaacat aatttgtaat gctggcttct gccccatgct cctggatgaa   60
acatgtagat tgcaagcatt acatcttact agggggcttc ataagcctct gctatctggt   120
agtctgttgt tgtgggtata gggttatgta aaaaaactgc attttttttc cggcaaataa   180
gcatatagtc accgtcaciaa tttccaatag gaaaaggcca ctacaccatc tggcacctaa   240
tgacaaaacg aagttccaaa gacaacacca acaggtcttc acacaattgt gcctattggc   300
cacaacaciaa caaatgttga gaagtttcaa cctggtcatg aaatgagcac ataggattac   360
cagaccattt tccttcctca tcacctcctt agttagggga gtatcaccaa agaact       416
  
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<210> 8329
 <211> 389
 <212> DNA
 <213> Triticum aestivum

 <223> unsure at all n locations
 <223> Clone ID: LIB104-044-Q1-E1-C3

 <400> 8329

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ttccaccagn gaaatatcca tcatctcatc gaaagacggg acacctttgc ctctatcaag   60
tggtatcaga tttccagggt gctcggtagg attttacagt ttttcgtagt ttagatcgag   120
tctgttcttc atacctacag tccacgaaaa agccaaaaaa aaaaattacg gttagtcat   180
catatccgaa ccaatctgag cctttgcata atccttttag ggttttgctt tgttgaattt   240
gcggttgcat cgtcgtgtct agttgctggt cttaaagtct agtcttttag agtttcgagt   300
tctggtcata agttgtcatg ccgcccgcgc accatcataa tcgccctgc catctaccac   360
caccgcttat ccgccacggc tccgaatcc                                     389
  
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<210> 8330
 <211> 426
 <212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-044-Q1-E1-C7

<400> 8330

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ttccggccga cggggagggtt gagaagctga ttggcaggat agtgaagtgg ctgaagcccg   60
gtgggcatat tttcatcagg gaatcgtgct tccaccagtc tggggattcc aagaggaaag  120
tgaacccgac gcactaccgg gagccgaggt tctacaccaa ggtgtttaag gaatgccact  180
cctatgacca agaggggaat tcctttgagc tttctctggt aacttccaag tgcattggag  240
cttatgtgaa aagcaagaag aaccagaacc agatatgttg gctgtgggag aagggtcaagt  300
gcacagaaga caaaggcttt cagagattcc tggacaatgt gcagtacaaa tccactggaa  360
tcttgcgtaa tgagcgcggtg tttggggagg gttatgttag caccggtgga ttcgagacca  420
caaagg                                           426

```

<210> 8331

<211> 445

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-044-Q1-E1-D1

<400> 8331

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tacggtcgta cttccggggc caggggtgat gaaatcggag catgctttat ttattgattg   60
tcttccttat gagtggcggg cggggacgag cgatgggtctt ttcctaccaa tctatcccc  120
taggagcatg tgcgtagtac tttgtttcga taactaatag atttttgcaa taagtatgtg  180
agttctttat gactaatggt gagtccatgg attatacgca ctcacaccct tccaccattg  240
ctagcctctc tagtgccggc caactttcgc tagtacctta aaccatcat ataccttct  300
caaaacagcc accataccta cctattatgg cgtttgcata gccatttcga gatattattg  360
catgcaactt tccaccattc tgcttattat gacacactcc atcattgtca tactactttg  420
catgatcatg tagttgacat cgtat                                           445

```

<210> 8332

<211> 421

<212> DNA

<213> Triticum aestivum

<223> unsure at all n locations
<223> Clone ID: LIB104-044-Q1-E1-D10

<400> 8332

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tgctgtgcga gaacggacct gagctgtgtg cgggtggtgtc ataaggagcc tatccatctc 120
cactagaatt atcccaagtt tcacttcaca tcgtgatgtt gttttacctt tttcctgtca 180
ttgtcctgct ataacggata gcgctccctg ttggcgccgc cgccggcggg gatgccctag 240
tgggtggaggg tgtatgtcct cttccgcggg gtgcccctgc ttgtacctag atggttactc 300
tttccgtcca ttgtcacggg ctaacattgt gataatatca gtctgggtaa tgttagatta 360
anaaaanaaa nnnnaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaagcggccg 420
c 421

<210> 8333
<211> 250
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-044-Q1-E1-D12

<400> 8333

gggtcgacgg gtaacaccca cttactatgt ttttttttct taaaaatata aatcatgatg 60
tttttttttt catatctagc aagcttcac ccatgttcaca ttgattgtca cccaccctcc 120
tcgacctgag tacctagttt tctatactac gtctcggctc gtacttcagt tctagattta 180
gattagttta ataaagtggg actagaaaac atcaccatcg catgcatgga caaaaggcaa 240
aagcgacaag 250

<210> 8334
<211> 429
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-044-Q1-E1-D3

<400> 8334

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aaaaacctac ccaagcacag cagcgtacag gagcgacgca caattacaag ctgatattct 120

gttgacaat ggaggctata accaattact tttacgggaa caatagcacc taggcaattt 180
gatgggtagg tatgaacaaa attggaactg cacatgtact gctaagtgat tcaatacaca 240
cattaccaat cgaggaggag aatgatggtc gcggcggcct ctgtgagtca tggtcggcaa 300
aaggagtcaa ttcattgtcc acgacgggtg tgcttctgcg cttggcgctcg gcttccggga 360
agcagatccg agaccgtgga agacgggtgcc cgggaaaacg ctccgtgtac gacgaccacc 420
gtggaccgg 429

<210> 8335
<211> 200
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-044-Q1-E1-D5

<400> 8335

tactttaatg ctgactcgag cttagatgga aactttatca gtttatggac tatttgtggc 60
acgagcgcta tttatttgcg aagcctttgg ttgaatctta gtggaagatt ctttcgagtt 120
cgagtagata attttgtcgg ttttgaggaa gtttgagggtt gcttcacgt gtggaactag 180
atcaggacgt tatttagttt 200

<210> 8336
<211> 422
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-044-Q1-E1-D7

<400> 8336

ttcggggtcg accttcaatg ccaatgaaag gtactcttcg ggatcattgc ttccagtaaa 60
tttgggcatg gtgaacttta gtttgccgta gcgttgctct tcattgtgtt ggggtcgagg 120
gtgatgacga cttgacaag gaggattgtc tccctcaact tgctcttata atggagggtt 180
gtcaacctca ttttgttctt ggcgaacttg aggttcttgt cgaggagctt gtggaacttg 240
acgatgcagt cgagcttgat ggttcctctc ttgaacttcc tcgcgaagcg cttcttggtg 300
ctcgcgcgtg tgaccgttgc ggtcggcgat ggcgcgactt gtttcatgga gggcacattg 360
ggccttgagt gcttgagctt cacgtcgttg ttgttgttgt cggagcgcct cgggtgtctg 420

ct

422

<210> 8337
<211> 437
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-044-Q1-E1-D9

<400> 8337

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gagcatccaa gttgggtata ataaaaacta ccatagaaaa gaattggatg ctatgatcaa 120
tatgatgctt gataattggt ttgagatatg gaggtagtta tattaaagtc atgctagtgt 180
aggtgattat gaaaagtact tgtgttgagg gttgtgattc ccgtagcatg cacgtatgg 240
gaaccgcttt gtgatgaagt tggagaacaa ttttatttat tgattgtctt ccttatgagt 300
ggcggtcggg gacgagcgat gatcttttcc taccaatcta tccccctagg agcatgcaca 360
tagtgctttg gtttttgatt acttctagat ttttgcaaca agtatatgag ttattttgac 420
taatgttgag tccatgg 437

<210> 8338
<211> 442
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-044-Q1-E1-E3

<400> 8338

tacggtcgta gctccgggtg cacggggagg ttgaaaagct gattggcagg atagtgaagt 60
ggctgaagcc cggtgggcat attttcatca gggagtcctg ctccaccag tctggggatt 120
ccaagaggaa agtgaacccg acgcactacc gggagccaag gttttacacc aagggtgttta 180
aggaatgcca ctctatgac caagatggga attcctttga gctttctctg gtaacttcca 240
agtgcattgg agcttatgtg aagagcaaga agaaccagaa ccagatatgt tggctatggg 300
agaagggtcaa gtgcacagaa gacaaaggct ttcagagatt cctggacaat gtgcagtaca 360
aatccactgg aatcctgcgt tatgagcgcg tgtttgggga gggttatgtc agcatcgggtg 420
gattccagac cacaaaacga at 442

<210> 8339
 <211> 341
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: LIB104-044-Q1-E1-E4

 <400> 8339

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 atgataatgt cgactgcggc gttgggtctcg gatgtgtaca gaataattcc tcgctatcag 120
 gtggtaataa cgcaccggaa cggacgctgt tcttgatgcg cggaatggca aggcaaagca 180
 ttctttcacc gagcaatggt gattgacgac ttgattacag acaagataga tttggcacat 240
 tcttacctgt aaagataatt tgccaaataa agccgtttat aagctttgcc actttgataa 300
 tctcttgtagc tgacacaatt tgaaagaatt cctttgagat c 341

<210> 8340
 <211> 303
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: LIB104-044-Q1-E1-E6

 <400> 8340

tacggtcacc attccggctg acgggcgaca ggagagtgat caagcagagc gaccttggcc 60
 tctatgtgtt tgcgtcgaag ccgtcgagcg gcgcggccat actgaggctg tagatcgacc 120
 accgccggcc gtggccggtc acttgtagat gcacacatac tctcgaataa acgcgtgctc 180
 gaggcgagca cgctgccatt agctaattta gtccccgccc atgcgtgtct gaatgtacaa 240
 tgccagtaca atgtgtagta gttatcggtg tttattatgg gcgatctgac tgccacgtta 300
 tct 303

<210> 8341
 <211> 442
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: LIB104-044-Q1-E1-E9

 <400> 8341

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aagatcgtgc cacatcaaga acacgagaga gagagagaga tcaaacacat agctactgcg 120
acataccctc agccccgagg gtgaactact ccctcctcgt catggagagc gccgggatga 180
tgaagatggc caccggtgag ggttcccctc ccccggcagg gtgccggaac aggggtcccga 240
ttggtttttg gtggctacag aggtttgcgg cggcggaact cctgatctag gtttctttct 300
ggaagtttct gtatatgtaa ggggttttgg caccgagaac aagtcagggtg ggtctccggg 360
ctgtccacga ggcagggggc gcgcccccca ccctcgtggg cagcccgga ctcttctggc 420
ccaactcttt tcttctgggg gg 442

<210> 8342
<211> 433
<212> DNA
<213> Triticum aestivum
<223> Clone ID: LIB104-044-Q1-E1-F10
<400> 8342

acgggtgtag ataacgtcga actcatcgcc ggtgatggtt ctaaccttgt actcaccgcc 60
gatcgtggag atttgggacg ccatggattt gggaggaggg ttaggattag tggaactgcc 120
gtaatgtgaa tggacgtgac gactaggagc aaaccacat agtattgaag gacgtgcggg 180
gacgagtagg agcgaactgc cagcgtgcga atggcaggggt agtggctttc cattctccca 240
tgatacgggc ttccgagagc ccttgatct gagatcgaac ggttgcatgg tgtgattcta 300
gacctatggg tgaatatcct atcctgaagg gttattctgc aaattttcag caacttagca 360
tgcgaccgtt tgatctcaga tctaagggt gccagtagcc cgtatcatgg tcgcgcctac 420
cacgaccgtc gcg 433

<210> 8343
<211> 438
<212> DNA
<213> Triticum aestivum
<223> Clone ID: LIB104-044-Q1-E1-F12
<400> 8343

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gagcgcttcg tgggtccggtt cccggacgcc atgccgctgg acaagggcgc gcccctgctg 120
 tggcgccggca tcaccgtgta ccccccatg aagtaccacg ggctgaacgc tcccgggatg 180
 cacctcggcg tgetgggcct gggcgggctc ggtcacgtcg cagtcaagtt cggcaaggcc 240
 ttcgggatga aggtgacggg gatcagctca tcgccgggga agaagcagga ggccctcgag 300
 aggctaggcg ccgacggctt cgttgtcagc aagaacgccg acgagatgaa ggctgcatg 360
 agcaccatgg atggcatcat aaacacgggtg tctgcaaaca tccccatggc ccctctcttc 420
 gggctactca agcccaac 438

<210> 8344
 <211> 422
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-044-Q1-E1-F3
 <400> 8344

ccgggtcccc ggggagcaca aaaaggcgga ggagcacaag aagaaggacg gggagcaca 60
 gaaggacggc gagcacaagg agggcatgat ggagaagatc aaggacaaga tcagcggcga 120
 cggcaagaag gacggcgacc acaaggagaa gaaggacaag aagaagaaga aggacaagaa 180
 gcacggcgag ggccacaagg acgacgacgg ccacggcagc agcagcagcg acagcgacag 240
 cgactgagcc agtccggcc cgcgctccgg cagcgtgcag tgtaggcgag atcgatgatg 300
 aacacttggg agaagtgtga cagacatata tggtgcaggg ttgggagcgt gtggtagcat 360
 atgtatgtaa tgcgtgacat gcctcatgga tcttgtgatg tataataatt agccggccgc 420
 ac 422

<210> 8345
 <211> 420
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-044-Q1-E1-F4
 <400> 8345

tacggtcgta attccggggc acgggaaact aaaaatctca agtacatgga aggatcttac 60
 agtagggtgt tgcaagactt ccaactgtga ccagctgcag ttggttcagc aaaaatataa 120

atctctggag catcaacagc aaaaatataa atctctagag catcaacaga aagaaaacga 180
tagaaaatag actatttgag cagcagctgg tgcggtagtc tgagtagaga tttcatggta 240
gcgaaggaac ttgccgtat aattgaggcc aacttcacag aaggatcaac acccgaagac 300
aacaatctga atcgtatttc tcatagataa gatatgttgc taatcatctt aatgatacaa 360
ctttacaatg agacattgta caaaaaacaa acaagtatct ttggagtctg gatgatgata 420

<210> 8346
<211> 398
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-044-Q1-E1-F9

<400> 8346

gacgggcata tacatacaga cagacaggag agctgccttc cgagccttgg aaaaaaggca 60
ctgctgcctt tgctctgctc atatccggac tcagatgata tgaacatgga ttgcattgca 120
gcaggcgatg aagaggccaa catagtctcg gacttttggg aaaccagaag aggttattag 180
catgtaggag aagaggagcg tgtaaaggaa actcaaggca atgcttgtat gtaacataca 240
aaaaataaca agttgtaaaa gcggcctcaa gttttcaaaa aaaaaaaaaa aaaaaaaaaa 300
aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aggaaaaaaaa aaaaaaaaaa 360
aaaaaaaaaa aagcggggcg cccaaagggt tcaagctt 398

<210> 8347
<211> 455
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-044-Q1-E1-G1

<400> 8347

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tttaatgatg atgtgttcgg cgtgcagatt gtcttcagca ttgcaaggca gggtctttct 120
ccggatactc caatgcagtc ctccacacat aatagetgta tccgggtccg ttaaataatt 180
acagccttaa gctgcaaggg taaaaatatt caaaacaaag taagtgcgat ccataagcaa 240
tttttccgggt gaggcattat gtcttgacct tgtagtatt ctgaactgtt ttacaatcct 300

cgcttcgtgt tttgggttgt ggctaggaat taagttaatg gcaaacaaac cgtttttttg 360
gcgtgtgttt aatttctaac cctaagcggc tgcattggtg aagcctgcaa cactgcacgg 420
atgcatccat tacattcctt ggcttataaa atttc 455

<210> 8348
<211> 433
<212> DNA
<213> Triticum aestivum
<223> Clone ID: LIB104-044-Q1-E1-G10
<400> 8348

cgggttatth gatatttttg tctttttttt caaaaatata ggagcaatth aagacatath 60
aaacccatgc ttcaacatga taaattagta gaaactatga tcaaactata gtagggggcca 120
aaacctgctg attacatata attagcaact acaaattgtca tttaatgaca ttttcaacct 180
tgacattggc acatatacta tgcacactag tagcaggcgc atctagacat cctcatcctc 240
ctccgctggc gaaatatcat ccatccacac ataggggtcg gactcatgag ctgtagccac 300
aatgtttgct cataatcgat ggtatctgag atgtatttga tgatgatgat gatttttctt 360
ttggatgacg cttggcatga ccgctggcact gaggtgtcct gcgcattgga cgtacgtgaa 420
gaaactcggg gct 433

<210> 8349
<211> 432
<212> DNA
<213> Triticum aestivum
<223> Clone ID: LIB104-044-Q1-E1-G12
<400> 8349

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gtgtgattcc gatgcccaca gggaaatgag atatgtatgc gtgtgagaga gattgcacaa 120
ttcattcacg tatcactatc tagcgatcgt ggacgtgcat cgcttgaaca taagtcaata 180
tctacttcgt atcgtggcca aaggtacaat atcgattcaa cgctataaag attggacact 240
cacatatcac atttttttct atttcaataa accttttcag ttgtgcatgc caaagttaca 300
gtgatgtttc ttcaaacaac caatgtagct atcatgtata tgcaccattg ttactcttgc 360

attcaaattc attagtcttg gatgatttat gtttccattt tgaagtaata tatgtaatat 420
tcatatatga at 432

<210> 8350
<211> 428
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-044-Q1-E1-G2

<400> 8350

tccggggcac cccgactaca cagagctggc attcgcggcc atgatgagga agaaggtcac 60
gatgcccgcc cacttgatgt acgacgggca ggacgacaac ctgtttgagc acttcagcgc 120
ggtggctcaa cggctgggcg tctacaccgc catagactac gcggacatcc tcgactttct 180
ggtgcagagg tggaacgtcg ccaacctcac tgggctgtct ggggaaggga ggcgggctca 240
ggatttcttc tgctcactgg gaccaagggt caggaagctg gaggagcgag ctcagggcag 300
ggcgaagcag ttaccggttg ttcctttcag ctggatccat ggtcggcaag tgcaactttg 360
agtgcattg caaaacaatt ataagacgat ttgttcttct tattttcaaa atatgaagca 420
actgttga 428

<210> 8351
<211> 430
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-044-Q1-E1-G9

<400> 8351

cgggcaaattg gaacggtatg attggaggta cctttatgca gactgtgatc ctggtgtggg 60
ttaccgtgag gaccgactgg aacaaagagg tggccgaagc gaggaagaaga ttgaacaaat 120
gggaaggcaa caagatgcct ctattagcag gccagaatg aaacagtgga tcctgtatat 180
gatcaacgga aatgtggtcc gttcgcaagt tgatctccct aaaatgtgta aagtgcattg 240
ttcatcgtgc aattcaccat tgaaattccc tacttccgtt ctgctattcc cgcttcgcaa 300
gcacggtagc agcggcgatc ttgtcatggt actagcgagt aacgggattc tatggcgatg 360
atagattagt gtggatgaga tcaacttttt tgtgtgagat atcaatattg ttggactgca 420

ctaagggtac

430

<210> 8352
<211> 424
<212> DNA
<213> Triticum aestivum

<223> unsure at all n locations
<223> Clone ID: LIB104-044-Q1-E1-H1

<400> 8352

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gcagagcctc gaacgggtccg agaatgagct cggccttgcc aagaagtagc tggaggataa 120
ggaaggtaag taatacctta tgaaagtagt accttataga aaaggatttg gttgcaaaaa 180
atgacaagaa taacgtgggt attgcagggg ccacgaatga ggtggcgacc ctgaaggaag 240
cgggtgtccaa ggtcgaaagc agtgcggcct tggagcgcac cgagcgagag aagcaggagg 300
cgcggtgggc cgaggtgctg caagagctcc aggctctcgt ggaaaaacat gagaatttgg 360
aaggttactc caggggcccc agagtcagag cttgcctcgg ctcttgagag tggcaaagcc 420
gcta 424

<210> 8353
<211> 426
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-044-Q1-E1-H10

<400> 8353

ttgaacgttt tattgctcga tgcactacat gtcaaaaagc taagtcacga ctcaataatc 60
atggtttata tatgcctttg cctgtaccta gtgtgataga ggcggggtgt cccgatcttt 120
cgatgagatg ataaccatcg atttggtgga gacgactttg acgatccgac tacaacgtg 180
caacgacgtt gtgccttagc aatcgctaaa ccaactccga gaggttattg accacgctgg 240
agcagcatca acctgaccac gaaggtctat tctgcaagc aatcgaagaa caagcaagaa 300
tatgataaaa gcaatctgaa tatcggaat atgtatgaag tattgataat ggtggggatc 360
cgaaaagtgg tcttggctctg gtcgttggac acaaacgaag cacacgaagt tgcaatggct 420

aacttt

426

<210> 8354

<211> 349

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-044-Q1-E1-H2

<400> 8354

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accaagggcc acgaaattcc cccctcttcc tccatatata cagcccttag ggcacgttt 120

agaccttggg atttgtttag ttaaaagtta gccattgcaa cttcgtgtac gtcgtttgtg 180

tccaacgacc agaccaagac cgcttacgga tctccaccat tatcaatacc tccatatatat 240

ttgcaatatt cagattgctt tatcatattc ttgctcgttc ttcgattgct tgcaggaata 300

gaccttcgtg gtcaggctga ccgtgcttcg ggcacgtca gtaacctca 349

<210> 8355

<211> 433

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-044-Q1-E1-H6

<400> 8355

cggaatcca tagagaagct agcacgctg gggacacgca atttttgtc agatgtctaa 60

gggggcttgg tttggatctt ctttttgtt tttccttggt caaatttgtt taggttcttt 120

cgccactgc catggttggc attggcaatg ctggttgatt gggttggatt gggttgtgag 180

aggggcaagc gatgagcaaa gataagggtt gggctgagct ttcctaagga gaggagagct 240

tactggagc ccaattccgg tgcccaaagt gagcacattt cctgtgagaa attcacccca 300

aatctgcact gtttttggtg cgccatagt gtggatgcca tcttaagttg catatggtga 360

gatgctagct gttggatgca gtagtagcac tgaaaggctg ggggtttggc cattgtttat 420

agagccaaga aga 433

<210> 8356

<211> 385

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-045-Q1-E1-A1

<400> 8356

cggggtatattt gaatttcaag gaatttaatt atgataattg atctttaata gattgtattt 60

ccttgctgca atccgtgttg aattctcctc atgcttatag ccaaaataaa gcttttacta 120

aacatatcgt tgatgctttg atgcaatctt atgaagaaaa acttgaatta gaagtttcta 180

ccctagaaaa ctttatgatg agtgggaatc cactattaaa attaaaaata aaaatcatga 240

aggctatgca ttgtgtgatt tgggtgctag tgtttccacg attccaaaaa cattatgcaa 300

tgtgctaggt ttccgtgaat ttgatgattg ctctttaaac ttgcaccttg cggattccgc 360

cattaagaaa cctatgggaa ggatt 385

<210> 8357

<211> 156

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-045-Q1-E1-A10

<400> 8357

aggagacgtg gttttgttcc ttccagttt tccactaggat agagcacttt catttgcagg 60

ctatttttaa cagcattgtc tcccaaatag aacagccaag tcacattctt tgcaatttat 120

ggattcacat ttacacctat ttttcacagc ccatgt 156

<210> 8358

<211> 257

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-045-Q1-E1-A12

<400> 8358

ctcatggggc acttatatta ttttgagagt cttctagagc agcatggtaa tttgctttgg 60

ttataaaatt actcctaata taatgggcat ccaagatagg tataaaatta gtcctaattt 120

tcatataaag tgcattgaat actatgagaa gtttgctact ttatgattgt tttgaggtat 180

gaagatgggtg atattagaga catgctagtg gagtaattgt ggatttgaga gatacttgtg 240

ttaaagtttg tgattcc

257

<210> 8359

<211> 262

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-045-Q1-E1-A2

<400> 8359

gtattttgaa gcaaatggca tttaattagg atactttatc tttattagat tgtatttcct 60

tgtctcttcc cgtgttgaat tctctccatg cgtatagcca aaatatatct ttacaaggg 120

gtggcggttg tgctttgctg caatcttatg aagaaaaact tgaattagaa gtttctactc 180

tacaagaatt ttataatgag tgggaatcca atattataat taatattaaa aattattatc 240

gatatgcatt gtgtgatttg gg 262

<210> 8360

<211> 280

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-045-Q1-E1-A5

<400> 8360

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caacatctgc agcttcatct cggagaccaa ccccgggcac gtgcgggggt gggagaccaa 120

ggacagccag ctgacgatgg tggcggacca cctgaagccg cgggcggtgc tgatgtgcc 180

ggagaacaag atgatccagt aggtggtgtt cgccagctac gggaacccgc tggggatctg 240

cggcaactac acgtttggta cctgccacac gcccaaggcc 280

<210> 8361

<211> 350

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-045-Q1-E1-A8

<400> 8361

cggggaaaaa tatgatgaat gacaaggcac tggttcgcaa cttagctgca tgtgaaacta 60

tgggctcagc taccaccatc tgcagtata agacaggaac actaacacct aatcatatga 120
 gtgttgtaa gacctgcatt tgtggaaata tcagagaggt taacagtcct cagaatgcgt 180
 ctaagttgtg ttcagaactt ccagaaaatg ttgtcagaac tcttctcgag tctatattta 240
 ccaatacagg tggtagaggt gttattaacc aagatgggaa acaccagatc cttggtaccc 300
 caacagaggc agccatattg gagtttgcaa tgtcaatagg tggaaacttt 350

<210> 8362
 <211> 275
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-045-Q1-E1-A9

<400> 8362

atttgcctga cttctggcac gtttggcagt ttatcacttt tattcaccaa cgcagactct 60
 agattcatgt gaaacttgct acacactcag ataccttggc atggggccat ggttttttca 120
 gcagttaagg aatgttcaac gagtttgaca taatgttcac acacttacia ctttttcggc 180
 acttattcga tgttctgggt tcaaaagtct aacctatcca cagctccatg ttgggggaaa 240
 ctccccctgg attggtcaca gttttttcgc ctttt 275

<210> 8363
 <211> 325
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-045-Q1-E1-B1

<400> 8363

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 gtcaagatcc atcaacgggt ctcgagaaa aactcagaga agagatccga ccaagtaatt 120
 ccatccatct acctacagtc atatgggttag tcttttagata gcagagggca tttgggcaca 180
 aaagaagacg actattaccg tgccagtgtc agaagagctg agtggtgcaa ggaagagtag 240
 cgtgtccgtg acttttggtc gttccgtcgt tactttttct ctgtgttcca gtcgtcggct 300
 taagtttggg cggctgtcgt cgtcg 325

<210> 8364

<211> 391
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: LIB104-045-Q1-E1-B10

 <400> 8364

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 actgtcgtcc gcaatgattg ggtcggggccc cagatgacat ggggtgggtta gcgtcgccgt 120
 gcagcatcca ttctaagtta gtcccacctc ggtcgccgaa ggatgtaccg atcagtttat 180
 atagccgcct ccggtattcc atgcatggtc atatcttaaa ttgttatata cctctatata 240
 tctgctccgc aatacactat caggcaatga actgccctgg cagttaggta aagtcattat 300
 acaatattaa atatgtttac tttgtcatTT tttttaacct tccaactgtg aaacattttt 360
 tttgaaatat tgcctcccaa caccattttt t 391

<210> 8365
 <211> 192
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: LIB104-045-Q1-E1-B12

 <400> 8365

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 gagtttgtga gctgtgtgaa gagcatcaaa atattatcat ctgttgaagt gcaacagatg 120
 agtttggatg gcgaccttgg cggtatccct tcacaaacac aagcctgtat tggttccgat 180
 gatgcaaatg ca 192

<210> 8366
 <211> 354
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: LIB104-045-Q1-E1-B4

 <400> 8366

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 cgcctcgtgt aagaggcgaa cctgtcgccc ctcatggtgt acttcatggc caacaacgcg 120

tgcttgccctg accacttata tgcacaccac gacaagcccc tcgaggagac agcagtccca 180
 cgtcttgccct tgatctgatt tcgttggcct gtgggtcaact ttctagccca tcgatacatt 240
 atttttttcc attacattgt tgccgttcat atcgcttagc ttctgcctcg gttcgttgct 300
 tcattcagaa ctatgcctct tggtcgcatg ttcttctcaa tgcctgccc ttca 354

<210> 8367
 <211> 345
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-045-Q1-E1-B5
 <400> 8367

gggcgagcgg agacgggtgca ctctgacaag atcacgggtgt ggttcaagaa gctcagctat 60
 gggctcagcc aggagcaccg cgaccccgctg ctccggtctgc gtcagggtat acatgggcgt 120
 caccaccatc cagctcgacg agctcgccgc cgagaccgcc gccgcgctca cggcctccca 180
 gcctgactat gcctccctcg cggcgaggat tgttggtgcc accctgctgc caagtgggaa 240
 tactctgtgt ggcgcttgct agtagagagc attctggtac aaaggtacac gaactaatag 300
 ggaaacttct gtcattttct ttgggtctctg atccataaat ggtcc 345

<210> 8368
 <211> 405
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-045-Q1-E1-B7
 <400> 8368

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 cgctcaatac aaagaggctt gatgatgata cagagaatct tgctcatgag cgtgtgccgt 120
 cggagctgaa gaagagcatt atgcaggcta gaacggacaa gaagctcaca caggcacagc 180
 ttgcacagct gatcaatgag aagccacaag tcatccagga gtacgagtca ggcaaggcta 240
 tcccaaacca acagatcatc ggcaagctgg aaagggctct tggcacaag ctgcgaggca 300
 agaagtgaag ctgcgtgcat ctgacaggag tcgagtcttt caagagagga tcttggctgg 360
 gcaagtttac cgctaaataa agcttgtcta ctaaatacatg cgact 405

<210> 8369
 <211> 389
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-045-Q1-E1-B9
 <400> 8369

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 gcccggtgag attttacagt ttttcgcagc tttgatcgag gctgtgcgtc agacctacag 120
 tccacgaaaa agccacagaa aaattagggt tagttcatca tatccgaacc aatctgagcc 180
 tttgcataaa ctttttaggg ttttgctttg ttgaaattgc ggctgcatcg tcctgtctag 240
 ttgctggtct tagagtctag tcttttagag tttcgagttc tggtcataag ttgtcacgcc 300
 gccgccgcac catcatcatc gcccgtgcca tctaccacca ccgcttatcc gccagcgctt 360
 cgaatccgta tccatatacc accacagct 389

<210> 8370
 <211> 299
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-045-Q1-E1-C1
 <400> 8370

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 gacggcgacc gaggaggctg ccgggccgat caaacacgat ggcgtgggcc ataacgaggt 120
 tgtccccgat cgggacgacg gtgtggcatc gacgagcgac accatcatcg tcgtcgagga 180
 gattaggaat ggccatcccg tcgagggtgc gatcgcgctt accgtcgagg cgggaagaga 240
 ccgtctgcgg tgcgaggatt atgaacggtg gtcgggccat gcgaatgaag acgacgcgg 299

<210> 8371
 <211> 415
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-045-Q1-E1-C10
 <400> 8371

tcaccacagg ctaatgtgtt ttgcttggag cgtctttatt atttgtgtct ttgcttgta 60
 gtttgccaca atcatccttg ctgtacacac attttgagag agtcatacat gatttagaat 120
 ttgctagaat actcattgtg cttcacttat atcttttgag cttgatagtt ttgctcattg 180
 tgcttcactt atatctttaa gcttgatagt tttgctcatt gtgcttcaact tataatctttt 240
 gagcttgaaa tttttgctct agtgcttcac ttacatattt tagagcacgg tgggtggcttt 300
 gttttaaaga atacattgat ctctcatgct tcaacttagat tattttgaga gtcgttaata 360
 ccatggtaat ttgcttaatg tcaaaatact tgggtattcag gatatatgaa acttt 415

<210> 8372
 <211> 326
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-045-Q1-E1-C11

<400> 8372

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 tgcattgcaac gcctgcccc tgtacatgag ataccgatcg aggtaaacgt aatgtgtgta 120
 cggaacgtgt gatgactgat gcttgcatga ttgtttgcac ttcgctgctc cgttatcacc 180
 ctctgttctt ttctggagtt ctcttttccc tggtaaatga ttaagtgtat gttgtgagtt 240
 gtgacattga ttaactggaa aatgtatcat tcagatgctc attaactgcg tcgcggttgc 300
 taatactact ccattatttt atgctc 326

<210> 8373
 <211> 397
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-045-Q1-E1-C12

<400> 8373

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 gatggttgta tcttcacac tacatgcatt ataggcagtt cccaaacaga atggtaaagg 120
 ttatactcc cctcctcca caagcatcaa tccatggctt gctcgaaaca acgagtggtg 180
 ccaacattca atgggtcaca gggggagttt tctttaatta ttttgatttg ctttgatctt 240

tttggatcat gggactgggc atcccgtta cgggcccttt ctggtgaatg aggagcggag 300
tccactcctc ttgagaataa cccacctagc atggaagata taagtaaccc tagttgcacc 360
tgagctgctc cagcatataa cacagaattt catttga 397

<210> 8374
<211> 324
<212> DNA
<213> Triticum aestivum
<223> Clone ID: LIB104-045-Q1-E1-C3
<400> 8374

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tcttctttta tggggttttt atgatgttat ttttttgttt ttttgttttt ttttttttct 120
tttggttttt tttttgtttt tggttttttt tttgtttggt gttttttttt ttcttttttt 180
tttttttttt ttttttgttt ggatgatttg ttcttttttg tttgttggtt tgttttttct 240
tatttttttt tctttttttg tatttgtttt ttttttggtt tttttgtttt tttttttttt 300
tagtttggtt tttcttttgt tttt 324

<210> 8375
<211> 245
<212> DNA
<213> Triticum aestivum
<223> Clone ID: LIB104-045-Q1-E1-C5
<400> 8375

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catgtggcca aaaaaattta tgtatgaaag ggttggttaa tgttttgaat aacaatttgg 120
cgagtctaata gtggcatcgg cctgcctaac aaaacggcca acccacacca tggctcacia 180
ctcgtactgt actacgaccc agccaccacc cccacacgca cacacccaaa cagcacatcg 240
taaca 245

<210> 8376
<211> 261
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-045-Q1-E1-C8

<400> 8376

cgggaatcat tatgtatttc tacatctgct atcacgctcg cagccagagt cacaactaat 60
gtcaaccaag ccatagccta tacttgactt gcagttgcac atgtaagctt ccaggcatga 120
ggtagtcttc cctctctttg agtcagggtg aagctttccg caagatgtca tggcgctctt 180
ccatgcatcc cggccatcta ctggtttctc cagggtgctc gtcaaccgtc cttcacccat 240
tactctctag tgaactcttg t 261

<210> 8377

<211> 301

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-045-Q1-E1-C9

<400> 8377

caacgcacac caggtgttcg acgtaatgtt tgcacggctg tcggtaaaag aaaatcactt 60
cgatccatat accgtttcaa aggttatatg cgtgttccat cctaagcata cttatagtct 120
tttagataca acttttgtga tatttttagct taagcattag cataggactg gccactgatt 180
attgcagttt ggaaatatgt tgaaagaaaa ctttactgtc aaaaaaccct ccaaataaaa 240
taggatgcat tgttaaattg actgtgcctt aacccttggt tggataaac ttcattggatg 300
a 301

<210> 8378

<211> 181

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-045-Q1-E1-D10

<400> 8378

ttgggcctaa gggaatgcat tgtggagtag ttattagatg atgggttgct agagtgcacag 60
aagcttaaac ctagtttat gcgctattcc gtaaggggct gatttggatc cacatgttta 120
atgctatggt tagattttat ctttaattctt ccttcgtagt tgcgatgctc gtcagagggg 180
t 181

<210> 8379
 <211> 418
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: LIB104-045-Q1-E1-D11

 <400> 8379

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 cctacatgac ggagctggag gtcaaggcca aggacctga gctccgcaat gccgagctgg 120
 agcagaaggt ctccaccctc cagaacgaga acaacacgct ccgccagata ctgaagaaca 180
 cgacggcgca cgccgggaag aagccgagcg gcggcaaggg gggagacagc ggcaagaagc 240
 accaccacca cttcggcaag ggctagtatc aagaccgagc ttctctgctg cgacgatggg 300
 tgctacgaac caccacaagt ctgcccattc gaccattgtt aggacactgc tgttgttgtt 360
 tgctgccgca gtttgacgct tggcttgtct tcttcttttt cactcctctc ttctccac 418

<210> 8380
 <211> 386
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: LIB104-045-Q1-E1-D12

 <400> 8380

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 cacttcacat cgtgatgttg ttttaccttt ttctgtaat ccggtggata cctcccccg 180
 ccgggctggc ctggttacc tatgccattt gttccggtgc aagggtacgg agctccacct 240
 ggtgcgtaac ctacccccg aggattgctt ccaactcggt tgtcactaga acattaccaa 300
 gttaacgtgt gctggttatg ccgtcgatga tatatacacg aacaaagtct tcaaagaaag 360
 gaaaaaaagg taagggtggt ggcttc 386

<210> 8381
 <211> 409
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-045-Q1-E1-D3

<400> 8381

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tttttttttt tttttttttt ttttttggtt tttttttttt tttgggtttt tttttttttt 120
tttttttttt tttttttttt tttttttttt tttttttttt tttttttttt tttttttttt 180
ttgttttttt tttttttttt tttttttttg tttttttttt tttttttttt tgtgggttgt 240
gttttttttt gtttggttgt ttttgtgtt ttttgtgtt ttgttttttt ttatttttgtt 300
tatttttgtt gtttggttgt ttttttttgt tgtttttttt tttttttttt ttttttgtgtt 360
tgtgttttgt tttgttttgt tttttttttt ttttggttgg tttttttttt 409

<210> 8382

<211> 224

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-045-Q1-E1-D4

<400> 8382

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ttagaaaagt agtttccttc tactactaaa cattgggtctc acgggggtttc gggcgagtag 120
agggcttttt ggcgcttcgt ttgatatttt gatacagaag cagtcacatt tagtgcactc 180
atcagctttg aggtttggtc tatactgaca gcggtttact ttga 224

<210> 8383

<211> 297

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-045-Q1-E1-D6

<400> 8383

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ttttatttta ttttgttttg cttgctgttt gtatagcata ccaagatctg aaattcgggg 120
gtgttaaata ttcttcagat atttacttaa ttattcgatt acacattgga tattaacgat 180
atgactttcg gactagtgtg tcgttgctgc tagtgcactg actcatatct ttttataaca 240

ttgtagttgt cattatttat gtagaaataa gcataatgct catgcttaaa ctagaat 297

<210> 8384

<211> 299

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-045-Q1-E1-D7

<400> 8384

acgggcacaa ttaacttccc cttcgtgctt accgaaggat gattgctatg atgattgtta 60

tgatcccggt gattctcttg aaatatccct ttttgatgat gcttgctatg cttgtgggcg 120

ggatgccaat atgaattatg cttatggaga tgaacttgct atagttcctt atgttaaaca 180

tgacattgtt gccattgcac ccactcatga cagtcctatt atctttttga attatccaaa 240

ctacgctaga tcagacaagt ttgtgcttac taaggattag attgatgggt ttcgtttta 299

<210> 8385

<211> 175

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-045-Q1-E1-D8

<400> 8385

acgggatcaa tgaagttact gtcttgcttt tctcttccga tcgttctgtt gcataacttat 60

atgttgctta tgtattgtct gtgatttggt acgaacgttt cgtttggtta gtgcattggg 120

gtgcgtgcgt atgtcgtgtg taatggtaat gttcgcgggtg tctacgacga ctggg 175

<210> 8386

<211> 308

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-045-Q1-E1-D9

<400> 8386

tatccatcag gcaaggatat gatttggtat gtatatgtgt tggatatgctt gtcgaaagta 60

ttttcatatg tgtgtgtata tatatatgtg aaattgaatg aatttaaaaa aaaacagaga 120

aaacatgggc tatacatgct ctttgccgtc tgctgggtaca cagcaaagag ctttgctgtc 180

tgctggctga cagcaaatat gccatgtgtc agctacctgt ccaacttggg gcaataagct 240
 ggctatttgg atgccttgct gttaactggc aaacggcaaa acacgccgtt aaccactaa 300
 ccgcctgt 308

<210> 8387
 <211> 237
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-045-Q1-E1-E1
 <400> 8387

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 gggatcatga cggtgccatg ggtgcggaat ggctaaaggc attcaagggc tacctcgggg 120
 accgatgac catgctgctg taagagttct ttttctctgc tgtaaatacat gatgatggga 180
 gcagtttttc tgtgtagctc tcacaaatat agaccacact caccacgcct gattttt 237

<210> 8388
 <211> 227
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-045-Q1-E1-E10
 <400> 8388

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 caaacttcaa gtttttagga cttgggttgaa catagggggg gtgtccttac atgatttaac 120
 catgaccact atttcgttcg ccaagaaaat ctttggcgac aaaatgcact gaagactcga 180
 gctgtcccat tgaactgttc cgatatgttg gcattcgggg aaaattt 227

<210> 8389
 <211> 375
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-045-Q1-E1-E12
 <400> 8389

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ggccggaacg tggagatgcc cggcctagge accaacgcgg agcagctcgc caagtctgca 120
aagcacctgt ccgacgagcg gggccggcgc aaaaagggtgc ttcaaattaa ctaacagctg 180
gcaggccggc tcgctctact ttgttgagtc ctgctcgttt ggtggatggt ttccattcag 240
tttttttctt cttgtacaca gtgatgtaat atttgtacag ttatgtaata atactgtgcc 300
acatttgga aatagattaa ggggtgtcca tgttttgccg gagcaagtgt tgattaaaaa 360
aaaaaaacca actct 375

<210> 8390
<211> 222
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-045-Q1-E1-E5

<400> 8390
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ttggggtttt ctaatgttac cttatttat ttataactt atctgggtgag tatttttagg 120
ggtgtgctta cgttattgtg tttctgaatt tggatgatt tgtggtgtc tctttggttc 180
gtttgttgta ttttttcgtt ttagttattt ttgttctttg gt 222

<210> 8391
<211> 252
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-045-Q1-E1-E7

<400> 8391
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gttggttttt gatggatgga cattcatgga ctgtaatgta tgtgtgcgac tagctggttt 180
gaactcgtga gctgctgctg ggtatagtga gtcgtcttcg tttccagagt aataaagttg 240
gttcgtccgg tc 252

<210> 8392
<211> 317
<212> DNA

cccaaataaa gtgtccggat acctctaagg acgtggggtt gagctg

226

<210> 8395
<211> 365
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-045-Q1-E1-F4

<400> 8395

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tttttttttg tttttgtttg tttttttttt ttttggtttt ttttggtttt ttttggtttt 180
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tttttggttt ttcttttttg ttttggtttc tttgtttttt ttttggtttt ttcttttgtt 360
ttttt 365

<210> 8396
<211> 311
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-045-Q1-E1-F7

<400> 8396

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ggcgagtata tcgatcttta cgtctcggcc atttcgagac tcctcgtcat gtcogtgatc 180
aaatcctgga ctccgaacta ctttcggtac atcacaacag ataagatcat aataccgatc 240
gtcagcgaac gttaagcgct gcggatccta cgggggtcgag aactatgtag acatgaccga 300
gacatgtctc c 311

<210> 8397
<211> 151
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-045-Q1-E1-F9

<400> 8397

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aatgcatgca tgcattgtaca ttcaattcgt tcactttcaa ggtgtatgat ttggactagt 120
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<210> 8398

<211> 386

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-045-Q1-E1-G10

<400> 8398

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acgggctgaa tcgctcccgt gatgcaacgc ggcatactga gcctgggggg gctcggtcac 180
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gggaagaatc acgaggtcct cgataggcta ggcgccgact gcttcgttgt caccagaaag 300
gccgactaaa tgaaggctgc gatgagcacc atggatggca tcatacacac ggtgtttgca 360
aacatcccca tgggccctct cttcgg 386

<210> 8399

<211> 215

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-045-Q1-E1-G11

<400> 8399

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accatatact ttggccggac tgttgacta tgaagattca atattgaaga ttttgtcccg 180
tgtccgggtg ggattctcct ttgcatggaa tgcaa 215

<210> 8400
 <211> 365
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-045-Q1-E1-G12

<400> 8400

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gcccggccgc tcaagcctta aaacttgccc gttcccatgg ggtcgtgcga atggcatggc 180
tatattaccc aaaccgtatt gatgaggatc ccgcaataag tggacacgat ctccattttg 240
acaagacatg taaatagagg ccgcgcctcg agacgctaag cgggaggcga aaaacgggtcc 300
gaaatgctaa agaggccaca tgtggcgctt cgccgaaaag ttgtgagttg acgggcatta 360
ttttg 365
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<210> 8401
 <211> 463
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-045-Q1-E1-G3

<400> 8401

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tttttttttt tgtttttttt tttttttttt tctttttttt tttttttttt tttttttttt 240
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tttttttctt ctctttcttt tgtttttgtt ttctcttttg ttttgtgttt tttttttcta 420
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<210> 8402
 <211> 99
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-045-Q1-E1-G5

<400> 8402

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gatttttgtt tcagttatat atatctttat ccctctcat 99

<210> 8403

<211> 356

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-045-Q1-E1-G6

<400> 8403

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agtgagtgtg catccaactc gcttgctcat gggggcctag ggcatttgag gaagcccatc 120

ttaggaatat aactccaag ttccataatg aaacattccc actagtataa agcgacaact 180

tatgagactc actacatgaa taacaagggt ctattttgaa tcacattata tgagattcac 240

tacatgaaga acaacgtgct actttgaagt acatgtgttg aagctacata ctagcattgc 300

cccttttttt tcgttttttg gccttttttg gcctttcatt tttctctgt ttgctt 356

<210> 8404

<211> 395

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-045-Q1-E1-H1

<400> 8404

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ctctcgtgct cttgatttgg cagcatcttg atgtaccacg agctttgata ctatagttgg 120

atcatatggg ttttctcccc ctctaccttc ttgtgatgaa ttgagtttta cctttgaggt 180

ttcactatta tggatttgag aactcttgat gtatgtcttg cgtgggatac cagtgggtgac 240

aatggggtat tctattgatt cacttgatgt atgttttggc acacaactgc ggattcccca 300

ggtgacattg gggtaatcta tgcataatgg ttgatgcacg tgttttcctt gtttctccta 360

tagaaagctt ggggcactct ttgaagttct ctgtg 395

<210> 8405
 <211> 213
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-045-Q1-E1-H10

<400> 8405

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 tgacaccatc tgcgactttt cagtcattta ccgatttggt tagaaacctt atcgcgcgtc 180
 aaatggcca tcactacaaa gtcgaactcg gaa 213

<210> 8406
 <211> 206
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-045-Q1-E1-H11

<400> 8406

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 gtctgtgtct ccggctaataaaaatcttac aaagagggtt ccggcctccg tcatggtctc 120
 cggcaagggc aaggacgccg tcaagccctc atgtacggcg cagtatccct gcgtcaagcg 180
 gcttcttgag cggcgctcc tctcct 206

<210> 8407
 <211> 77
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-045-Q1-E1-H2

<400> 8407

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 cccgccctgt cccgttc 77

<210> 8408
 <211> 191

<212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-045-Q1-E1-H6
 <400> 8408

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 aaatccacct ttcataatta tttcatacat gtcgctcttg ggggggtgca tatcccggta 120
 tacctcactg cggcacgcac atacactcat attctgttcc aagtactgcc ttgtacttcc 180
 tcattttctcc c 191

<210> 8409
 <211> 422
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-045-Q1-E1-H7
 <400> 8409

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 tttgtagtta tatctaattg tttgtaatgt ctggttgtat gaatattatg ttctatctaa 180
 atttgatctt gtagttccga taacagagta ctaaaataga gtaggcataat gtctcgtaca 240
 taagtacata gtcatttttc tcatacatag aatagacata agtctcacac agaaatagat 300
 ggtaatgtct ctactgatag atagaagcgt cagtgcgcac gtctggcctg gcggggaggc 360
 ggatctggaa tcagggacca tcccaacctg tcgggtgccc taacatgacg atgaagaatc 420
 tc 422

<210> 8410
 <211> 406
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-045-Q1-E1-H8
 <400> 8410

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 agctctgggt tgcgagaagc ataaacccca accttcccca aatgggacaa aaaatttacc 120

acggcatggt gatgccgctc cataatagca tgccaagttt catgaatttc agaagagttt 180
 tggatttact agaatttaaa aaccaggcat ctcaaggttt tgccggcaat caacggtgcc 240
 ctggtgtttg aaattcattg ccatttcttg catgggacct aagcacgtac ccaaggacac 300
 agatttgatt tttcaaccaa ttgatatgca ctggagcatg tgcattgtact tcaaatttga 360
 attatgcaca taaatgcact gaaaacccaa tttaagcatt aaaatg 406

<210> 8411
 <211> 422
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-046-Q1-E1-A10
 <400> 8411

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 ggcgagctca tcatgcacct ggagtgggtt aacctcccc caggcatgtc gcggtgattt 120
 gatttgattt gcagagggag gccagctatt gtctgccttt tgtgatcgta atgttgcttc 180
 ctctatatat gagctatgac aataattaag cgatgcctat ctcatcttt acataacacc 240
 caccgtaatg atttgtggat ctccaccagga tgggtgcgtat ataatatgag caacgtcgtg 300
 gtgagatccg cagatcatca cagtgggtgc tacgtaaggc atgtgataga cttatgctgc 360
 tgggggtaat gcttgctttc agttttgggt ctgcatatgt tgtatggcta ttttaataca 420
 aa 422

<210> 8412
 <211> 412
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-046-Q1-E1-A12
 <400> 8412

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 gacaccacac aacagatatg ctgctgtcag cagtcctctc taaatagtca ctgcaattat 120
 cgtataagta catcattgct gctgtcagca gtgctctcta aatagacact gcaattatca 180
 tgtacatcat tgctgctgca atgaaccatt aagaattatt taaaatctag cctaccatct 240

gcgttgtcgt caacagaggg ttgaggcgga gttacaaaat ctgtatgaga aaccgagggg 300
 ttgtccgagt cagcgacatc tttgttatct tcagagctgt cagaagcagc tgagatggcg 360
 tcacctgatt ctgaatgtgt tctgtccaca tatgcttcag gtaaggagct ct 412

<210> 8413
 <211> 349
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-046-Q1-E1-A3
 <400> 8413

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 ggggggttct cattttggaa aatgcaccgc cctgggctaata taaatagttt ggaatctttt 120
 aacaaaaggg ttttggatg atcaaaaaat tggcccaaaa agaagatcac caaagtgggg 180
 tacagtaagc actatcatag gacgtgaatt ggatgctatg atcaacttga aacgtgataa 240
 ttgttttgag atatggacgt agtgatatta aagtcatgct agttgggtga ttatgaattt 300
 aaagaatgct tgtgttgaag ttatcaagtc acgtagcatg cacgtatgt 349

<210> 8414
 <211> 374
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-046-Q1-E1-A4
 <400> 8414

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 tatcatgcta tggtaggtt taccctaata ctctgtatgt aattgcggat gcttgaata 180
 cgggttaatc atacttggga tgcacgtcca agaaaggaca gtattcaagc actgggtccat 240
 ccacatatca aattatcaaa ttaatgaacg ccaatcatat gaccttgatc aaatctagct 300
 tgacgataat tcccatgtgt cctcgggagc gttttccttc atataagaac ttgtatcga 360
 ttgtcctttg ctac 374

<210> 8415
 <211> 294
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-046-Q1-E1-A5

<400> 8415

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 gatgtgtgct gcaggcagat ggtggggtaa cgtgggctcg gcggataggt tcgtgtcgtg 120
 tcccattgcg gacgactaac aggtgctgat acgtgggggtg aagcatgacc tagggaaccg 180
 cttgtccggc cgtgcacggg gtttccaact tatcatcccc atcgtcctga attatcggtc 240
 ttctccgctt tcggttacat tggggatata ggctgtcatg atattacatc tgga 294

<210> 8416
 <211> 403
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-046-Q1-E1-A6

<400> 8416

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 tctaagcggc ataagtcttt agggactcaa aaaaacctct cgaacagcga ccggctctcg 180
 cctcatcatg acggtcagtt ttagctttct cactgaggt gtcgcccag ctcaactggg 240
 gcacaatcgc agtggttctc ccagcgctac cttagccgat ataacggaac gtaaggtacc 300
 aaaacatggg agccgggcaa acccaactat tgaccaaga catgattcgg agccaatgca 360
 tataatgcta taagttcggg gtgccgcact tgtgaaagtg ttc 403

<210> 8417
 <211> 428
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-046-Q1-E1-A7

<400> 8417

cggggacact gagatgtgtg tggagaggag gtaacaaaaa ttatcttgag tattgtccgg 60

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agccccactg ctttatctca gtatagacct atcagtttgt gcaatgtgtt atacaagata 180
gcatccaagg taattgcaaa tagactgaaa ctcatctgc cagacattat ctctgaggag 240
cagtccgctt ttgtccccgg aaggttaatt actgacaata taatttcagc ttatgagtgt 300
ctgcacttta tgaagcggtc tagatcaaaa tcaataatt tttgtgact gaaattggac 360
atgatgaagg cctatgatcg ggtagagtgg acatatctga gggctatcat gactaaactt 420
gggtttgc 428

<210> 8418
<211> 380
<212> DNA
<213> Triticum aestivum
<223> Clone ID: LIB104-046-Q1-E1-A8
<400> 8418

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ctgaacgcac agtttcaaaa catctggagt gtcacctaag gtaccaagtc cttgcaccag 120
atttccttgg atcttaatgt gagacatttg tcaaaggagg cttgtcacat gttgccgaag 180
acggtgtaga tattcccagt tatgacaaag ctccagcaca tgctcatttc caacaattga 240
aactcacttt tgatttgcta taactttaat atcgaagatg caaaacacta tcagacactg 300
aataatgcaa taaggtttta atatgtaaaa cgatcttggt gtaggtcgta tcacacgatg 360
tgtacagaca tgatgccaac 380

<210> 8419
<211> 399
<212> DNA
<213> Triticum aestivum
<223> Clone ID: LIB104-046-Q1-E1-A9
<400> 8419

attcccgggt caacggggat cacacagaag ccgttcagca catgcagaag cgacggcaga 60
gcacaatatt gccggccatc acagcgaggg catgatggag aagatcaagg acaagatcag 120
cggcgacggc cacggcgacg gcaagaagga cggcgaccac aaggagaaga aggacacgaa 180

gaagaagaag gacaagaagc acggcgaggg ccacaaggac gacgacggcc acggcagcag 240
cagcagcgac agcgacagcg actgagccaa ctccggccgc gctccggcag cagcgtgcag 300
tgtaggcgaa atcgatgaac gcctgggaca agtgtggcat acatatatgt tgcagggttt 360
ggagcgtgtg gtaccatatg tatgtaatgc gtgacatgt 399

<210> 8420
<211> 411
<212> DNA
<213> Triticum aestivum
<223> unsure at all n locations
<223> Clone ID: LIB104-046-Q1-E1-B1
<400> 8420

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ttagtagggtt ggttaaaaaa tatgcaagaa attagcatga aatctttatt aactatagat 120
acattttaca catatatcac acggtgtttg acttctcatc ctcttaggtt gcaataagat 180
ttttactggt cattacttag gcaggctcta atccgttatc agtgagtata gttagtgata 240
gtgttggtggg ggctcggcta gagggttatc acgagccgtc ctaagacata ctatcagtct 300
gtgatgatgt gttcacgtca acctcaccca aaatggactg ctcaattgat tggtcctaa 360
ttaaattag ttagtctgtt gattcanaat taatcctcca tttttccgc t 411

<210> 8421
<211> 376
<212> DNA
<213> Triticum aestivum
<223> Clone ID: LIB104-046-Q1-E1-B11
<400> 8421

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taaaaggcaga tgggtgccgc gcggctgaga tccttcggac cgaggtggcc cgggccaaaa 120
aagcaagccc cggagtaaca gtgccgcttg ccaagaagga atctgcagag tttaaaggcc 180
gaataggctg ctccggcgcca atgcggggag aaaatatcca cgatgacgcg tgagctaaaa 240
gatgccgcta gccgctgtgc aatccttgat gaggataata aagccaaaac ggttgatctt 300

aacaaggcct tacgagagggc gaaggaagca cgggtccgaat ctagagcgcc ccgggaggag 360
atccgacaag ctgggg 376

<210> 8422
<211> 375
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-046-Q1-E1-B12

<400> 8422

ccgggtacac gggcaaggcg cagtgcagtt ggagatcaag aagggccaca tgtacttgtc 60
tcgtgggttg gagaagttct accgtgccta cgacctgcag ctgggggtact tccttctctt 120
caggtacgac gacgatgcc aatgctcat cgtgaagggtg ttcaacaaga ctatgtgtcg 180
catgcgctac gctgcgatg atgatgccg tacattctgc ctcttcttat tcctctacat 240
ttggctttgt ctcacatcta ttgttaacgg tcattgttgc attttggaca ggtaatggga 300
gcagcagcag cggcactggc tacagccaaa gcagcagcga ctatggctgt agcgaaagca 360
gcagcgattc tggct 375

<210> 8423
<211> 430
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-046-Q1-E1-B3

<400> 8423

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aaaaaggaaa aagcccgcaa ggttcaagtt tggtttgaag gactaaggct ggggggtacaa 120
cataggcaag gccgactttg aaggccgga tttaaaggac ttccttgaaa gcaaccaatt 180
caaattcgta agggtaaaact ttggttaaaa caaagaagtc ctgggtcgga taggcatcat 240
tgtaggcaac accttcaacc tccagaagaa tcggctgggtg tccttctctt agccttcaat 300
gctgacctg gcaagagcca tggttcatcc ttcatacagt aaactggaga aacctccata 360
cacgtttcat cattatgcat ggcagcgga tgtactagat atagaccaca tccactacgc 420
tgcaatggat 430

<210> 8424
 <211> 456
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-046-Q1-E1-B5

<400> 8424

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 ccaagaggcc caagggtctg ttggatcctg agaacttcaa gaagtttaaa cttgtggaaa 180
 agacacaaat aagccataat gttgccaaat tccgatttgc tcttccaacc cctacctctg 240
 tgtaggctt tccaattggg caacatatca gttgcagagg tcaagatgct acaggtgaag 300
 aagtaatcag gccttacaca cctactacat tggattctga tctcggaaat tttcagcttg 360
 ttataaagat gtaccctcaa ggaagaatgt cgcatactt ccgtgaaatg aaagttggtg 420
 attaaatgct cgtgaaggga cctaaaggct ctttca 456

<210> 8425
 <211> 364
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-046-Q1-E1-B6

<400> 8425

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 atcgtctgtg ttttaggtt tcggtgctca atgttcttcg tgcgaactc atccagtgtg 180
 tattctttcc gtgttatact ttgtcaagtt cagagagacc tgatgagtct tttccaacgc 240
 ctctttcttg tttgtgagtt atgatgttag ccttcttcag acggataata gactttttca 300
 ataagtttat gaggttctta tgactaatgt gagtctacgg atgatctaca ggctcaaact 360
 ttaa 364

<210> 8426
 <211> 253
 <212> DNA

tcctcaccac aggcattgtc cggatgattt atttgatttg caaagggagg ccatctattg 120
 ccttcctttt gtgatcgtaa tgggtgcttc tctatatatg agctatgaca ataattaagc 180
 gatgtctatc ccattcttta cataacaccc actgtaatga tttgtggatc tcacaccagg 240
 atgggtgcgtc tataatatga gcaacgtctt ggtgagaccc acacatcatc acattgggtg 300
 ctacgtaagg catgtgatag acttatgcta ctgggggtaa tgcttgcttt caattttggt 360
 tctgcatatg ttgtatggct attttaatt 389

<210> 8429
 <211> 405
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-046-Q1-E1-C1

<400> 8429
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 aacacattgg aggttggttc atgttccac gcattgcttg attgtcgggt ggtcgttccc 180
 gcttctccgg ggttcaggca agaaggattg agcatttaaa acagatttaa tgcttgcttc 240
 tgtatcttct gctgacaagg acgcagctaa gacattcgac agtttcaata gaatgcatat 300
 gatttgata gatagatttg agacaggagc atagaaaggt taggggccga tcacattcac 360
 ttagttcaaa agattcaaac gagaagacat agctataagt gaatg 405

<210> 8430
 <211> 415
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-046-Q1-E1-C12

<400> 8430
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 agcccgccgg attcttcgtc agcaccggca ccagggcg cgccaggag accactgctt 180
 ggacggcaat caccagctg gtgcaccacg ggatgctgtt tgttcccatc ggctacacct 240

ttggcttggg catgtttaac atggacgaca tcagaggggg cagcccctat ggagctggag 300
 ttcttgctgg tgacggtagc aggcagccca gcgaggcgga acttgccctc gccgagcacc 360
 agggcaagta catggccgcc ttcgtcaaga agctcggcca ggctgattc tgagc 415

<210> 8431
 <211> 404
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-046-Q1-E1-C4
 <400> 8431

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 ggattggtgg tagcttcctt ggacctctgt ttgtgcatac ggctctccag actgaccag 180
 aagcagcaga atgtgccaaa ggccgacaac tgagatttct tgcaaatgtt gatccagttg 240
 atgttgacg gagcatcaaa gatttagacc ctgcaactac tcttgttgtg gttgtctcaa 300
 agaccttcac gacagctgaa acaatgttga atgctcgaac tatcaaggag tggattgtct 360
 ctgctcttgg acctcaggct gtttccaaac acatgattgc tgtc 404

<210> 8432
 <211> 420
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-046-Q1-E1-C5
 <400> 8432

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 actatatgca cttccaccaa caccgacagt agctgcaagt gcaagagtat gggggcatcc 180
 tgttgcaatt aggttttagca atcttagaga gcctctagta gagtcaccat atatgtgatc 240
 accatcgtcc atatggagcg caatccatat ggatatgaag atcgtgggtgc ctgtgcgcaa 300
 acacatatcc tgcatacgc agtaattttt ttcattttct cattcaaaca ctttgattcc 360
 ctccaaattt aaatgttttag cccatccagc acacatgtgc ataatttttg ataagttgca 420

<210> 8433
 <211> 415
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: LIB104-046-Q1-E1-C6

 <400> 8433

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 tttttgcttc accggagttt gtgtagatgc gaattacgtt tcaggacccc ctccccctt 180
 tttttttgcg acagacagac agacagcctt gttttttccc caggattttt acattgtttg 240
 gtctccagcg ccaggatgca cgccattatt ttttcacat gtgtaccatt atttgttgta 300
 taagaagact gagcacgggt ggacatgttc ataggaggaa taagcacgat gtccatctac 360
 ttgaacatca ataatgtcta tatttatatt tatatctatt actgtatttg ccac 415

<210> 8434
 <211> 409
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: LIB104-046-Q1-E1-C7

 <400> 8434

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 atctacatct tcaaggcgct caagcagggtg caccgggaca tcggcatctc ctccaaggcc 180
 atgtccatca tgaactcctt catcaacgac atcttcgaga agctcgccgg ggagtccgcc 240
 aagctcgccc gctacaacaa gaagcccacc atcacgtccc gggagatccg gacctccgtc 300
 cgcctcgctc tccccggcga gctcgccaag cagccgtct ctgagggcac caaggccgtc 360
 accaagttca cctcatccta ggctagtctg ccgtgtccgt gaactgatg 409

<210> 8435
 <211> 436
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-046-Q1-E1-C8

<400> 8435

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catgatttat ttattgattg tcttccttat gagtggcggg cggggatgag cgatgggtctt 180
ttcctaccaa tctatcccc taggggcatg cgtagtagta ctttgcttcg agggctaata 240
aacttttgca ataagtatat gagttcttta tgactaatgt gagtccatgg attatacgca 300
ctctcacctt tccatcattg ctagcctctt cggtagcatg cattgccctt tctcacctcg 360
agagttgggtg caaacttcgc cggtagcatc aaaccccggtg atacgatact ctctatcaca 420
cattaacctc aataaa 436

<210> 8436

<211> 364

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-046-Q1-E1-C9

<400> 8436

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tcaccaacct gaagatgaag acgagtactc ttctaacacg atgatataatc gaggaggaat 180
aagcattggt gaacaaacct ttgggtggtg ctggcagtat ttgttgcaaa acgaacctgt 240
atagagatgt gatgtcaggg gaattcgttc cttatttgtt atgttttctt tttttttctc 300
ttcctgcaat tcagtttaac tgctgctagc tgccgatttg gcctgcataa tcgcttctgt 360
tcgc 364

<210> 8437

<211> 411

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-046-Q1-E1-D1

<400> 8437

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 ttatccccatt gtacaattcc attgtataat aaccctaattg tgccaatggt tgccttaagg 120
 atgttttacia tacatgatgg tttgtgaggt gcatgacaga aacattgggt gtactgcgcg 180
 atatttaact ttttactgga atgtcaaaag gttctgacac attgtgcaact gtctttctat 240
 ataaattgga taatttttct aatttttgca gaagttttca cgtaacataa gtagggctaa 300
 tgtccatatt aatacagact gttctgtttt agacagaatc tgtatttgaa gcatattcta 360
 cctgttatga ggaaactatc aatttataac actggattaa gccatgaaaa a 411

<210> 8438
 <211> 415
 <212> DNA
 <213> *Triticum aestivum*
 <223> Clone ID: LIB104-046-Q1-E1-D10
 <400> 8438

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 ggatcttacg agttttctgt tctgaagttt tcaaattttg gttaaagatt cgatggacca 180
 cggaataagg agtggcaaga gcctaagctt ggggatgccc aaggcacccc aaggtaatat 240
 tcaaggacat ccaagagcct aagcttgggg aagccccgga aggcacccc tctttcatct 300
 tcgttcatcg gtaaccttac ttcgagatat atttttattc accacatgat atgtgttttg 360
 cttggagcat cattttcttt cataggattt gcttgctgat catttagagt aatgt 415

<210> 8439
 <211> 422
 <212> DNA
 <213> *Triticum aestivum*
 <223> Clone ID: LIB104-046-Q1-E1-D11
 <400> 8439

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 acctcccctg gctcaaccgg aacgagttcc ggctcgagtc caagtccaac aaccgggtcc 180

aattcccca cccggaccct ccaaaattaa aaggaaaaac tgtaaaggac agttttggac 240
 acggctgggc aggagagata ccgtgcaatt actagtgcatt attacagggg tgctgttgga 300
 gcactcctag tctttgacat aacaaagagg cagaccttcg acaatgttca gaggtggctc 360
 cgtgagctcc gggatcatgc agatgccaac attgttgtca tgatgggtgg gaacaagtca 420
 ga 422

<210> 8440
 <211> 398
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-046-Q1-E1-D12
 <400> 8440

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 catgatttat ttattgattg tcttccttat gagtggcggg cggggatgag cgatggctct 180
 ttcctaccaa tctatcccc taggggcatg cgtagtagta ctttgcttcg agggctaata 240
 aacttttgca ataagtatat gagttcttta tgactaatgt gattccatgg attatacgca 300
 ctctaccct tccatcattg ctagcctctt cggtagcatg cattgccctt tctcacctcg 360
 agagttggtg caaacttcgc cggtagcatc aaaccccg 398

<210> 8441
 <211> 424
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-046-Q1-E1-D4
 <400> 8441

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 ataaccaagg acatgggtccg ccaaaacaaa cctcatcaa attttggttaa caggccttta 180
 ttgagtagat tacaacattg cacatctttt ctgtgtggag ttaactttat agttctgtaa 240
 tacactagac ttgctctggc taagtttctc ccaatatata tggtagaata gcctactaaa 300

ttttttaagc ttagcacata aattaaagca cagttactgg gtttgtataa ttgtaggcat 360
 ggtaattgt gtggtgtacc tctatTTTTT ggaatttTgt agtggcatac tggcaaccaa 420
 ctgt 424

<210> 8442
 <211> 427
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-046-Q1-E1-D5
 <400> 8442

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 tcatattcaa gagctgcttc tcaagcagac gaataacgca ggagctgccg cccgagagaa 180
 agccaagatg gatcaacttg agttagacgc ggttactcca ttgtatgaag gatgcaggcc 240
 cgaggatacc cgctgaaag taacgctcat ggctctggag atgaaggtaa aacacaaaat 300
 gaccgacgca tgcttcgacg agaacatgtc attctggcac gaacgtcttc ccaaggggaa 360
 caagtgcccg actagtttgg aggaggcaaa gaaaatcgtg tgcctctgg atttaccgca 420
 cgtaaa 427

<210> 8443
 <211> 383
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-046-Q1-E1-D6
 <400> 8443

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 accaaaacac ttatcctttt gggccatccg gtgccatgtc acacgcgagt ttcagaacat 180
 tgatctgcc aatccatcgtg catgttgatt tgcataacac tgtaaacgg ctcgatctga 240
 cgtttgaata tctggcactt atactttatc atatcatcag attacgcaga ccatactttt 300
 catatttct gacatactc atctaactg tgccctgtca tatttaccoc aggaggggg 360

atgcgatgta catatttcca tgg

383

<210> 8444
<211> 341
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-046-Q1-E1-D7

<400> 8444

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gtagcctgcg ctttggttag tattttgttc ggcgctcgag ttcgtattct tcggctgctc 120
gggccttagt ctgtctgtct gtgagcagat cttggtcagc ttggagctgc tgctgcttct 180
tttttaggct tcttgcaagt gctgtaagcc tgcgcttgaa gcgctcctgc tctatgggat 240
cctctggtat gccaaatttg tcgccattga ggtcacctc gtcttcggag ggaggcatat 300
agttatcctc ctccaagtat ccgtccatcg cctgttcgtc t 341

<210> 8445
<211> 379
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-046-Q1-E1-D8

<400> 8445

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gaggagaaga aggaggaacc tgagccgcca aaacctgaac agaagaaaga gccaacggtg 120
atctccgtgg tgcggaacgt gcacatgcac tgcgaggcct gcgcgcaggc gataaagaat 180
aggatcgaaa acatgaatgg agtgcaatct gcatacccgg acctgaacgc gtctgaactg 240
acggtgaatg gcgtgtttga agaggtcaag ctgactgagt acatgcacaa tcgcaccggc 300
aggcatgccc ccattatcaa gtccgagccg gttgccccgg ccgagaaggc cggcgaaggc 360
gacgccatcg atcaaaaaga 379

<210> 8446
<211> 409
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-046-Q1-E1-D9

<400> 8446

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gtttccacga ttccgaaaac tttatgtgat attctaggtt tccatgatct tgatgattgc 120
tctttaaatt tgcaccttgc ggattccacc attaaaaagc caatgggaag gatcaatgat 180
gttcccattg ttgtaaataa aaatttgatg cccgtagatt ttatcgcttct tgatatagat 240
tacaatcttt cttgccctat tattcttggt aaacctttcc ttagaacgat tggtaggtatt 300
attgatatga aggaagggaa tattagattt caatttcac taaagaaagg catggagcac 360
ttccaagaa agaaagtcaa attaccttat gaatctatca tgcgagcta 409

<210> 8447

<211> 423

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-046-Q1-E1-E1

<400> 8447

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aaggggctga tttgatcca catgtttcat gctatgggta gggttacctt aatacttctt 180
ttgtagttgc ggatgcttgc aataggggtt aatcataagt gggatgctcg tccaagaaag 240
gacagtaccc aagcactggt ccaccacat atcaaattat caaagtaatg aacgcgaatc 300
atatgagcgt gatgaaacct agcttgacga taattcccat gtgtcctcgg gagcggtttc 360
cttcatataa gaacttgtag aggattgtcc tttgtacaa aaaagattgg gccatcttgc 420
tgc 423

<210> 8448

<211> 396

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-046-Q1-E1-E2

<400> 8448

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 cggccctaga tatggattgg gtctacgagt gtctgtcaac cttaacgttt gggctagatt 180
 gtgctgtccg gtttggttac atttttctgt ccaagcagcc tgatacgggg ctctgtttgt 240
 aggtgctctt agagcaccta caaccggacc ccataccgc ctcaaagtgt cgtgctggct 300
 gccatatcag tgctcagacg aaaaaagca acccaaccgg gcgtcccgta ttcgggtccaa 360
 atgcccgac tgactatcaa cccagcatc cagctc 396

<210> 8449
 <211> 402
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-046-Q1-E1-E3
 <400> 8449

ttgttcttgt tagaggcagc accaagattc ccaaggtcca gcaactcctc aaggactact 60
 ttaccggaa aggaccaaac aagggtgtta aacctgatga aggtgttgcc ttccgaactg 120
 caattcaagg aaacaacctt aaccggcaag gccgttacca aaacaaaggt aacctcctcc 180
 tccaatttgg gcccttaac cttcggtacc aaaactgttg gaggattcat gacaaacctg 240
 ttccaagga acactgtcat cccacaaaag aagtcgcagg ttttcaccac ctaccaggac 300
 cagcagacca ccgtctctat ccaggtcttt gagggggagc gcagcatgac caaggactgc 360
 cgtcttctcg gcaagttcga cctttctggc attccccag ct 402

<210> 8450
 <211> 415
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-046-Q1-E1-E5
 <400> 8450

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 gtatgagatt tatcatgtaa tcgaattagt tttgttaggg tttgatccct agtatccact 120
 atcttctgag attgatgttg ctatgacttt gctatgctta atgcttgtca ctagggcccg 180

agtgccatga tticagatct gaacctatta tgttttcatc aatatatgag agttcttgat 240
 cctatcttgc aagtctatag tcacctatta tgtgttatga tccgttaacc cccaaagtga 300
 caataatcgg gatacttacc ggtgatgacc atagtttgag gagttcatgt attcactatg 360
 tgctaattgct ttgttccggg actctattaa aaggaggcct taatatccca taatt 415

<210> 8451
 <211> 427
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-046-Q1-E1-E6
 <400> 8451

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 ttgtgcataa gttatcacac ccgtggtgtg tatttcacct tgccatttag acaaaagtta 120
 attgcggtat attttcaaca actttttcct aagtcaaaag ttagcacggg gtttgatatgt 180
 gagttatcaa ctttgtggtg tgtaaaatat catggtattt acatagaggt taccagggat 240
 atgttttcaa caacaaacaa tcccgggtca aaagttttca cagtgtttgt gagtgtgtta 300
 tcagctttgt ggtgtattac catgatattt acacataaac taccgaaggt atgttttcaa 360
 cgattttttt cagtatgctc ctctctctta tatttaggaa caggggggtgt acaaaacaga 420
 agcaacg 427

<210> 8452
 <211> 422
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-046-Q1-E1-E7
 <400> 8452

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 gctggagggtg atcaccaacg ggcggtacga gagcgtgatg caccgcgtgc tcaccgcca 120
 cgacggcaac cgcatgtcca tcgectcctt ctacaacccc ggcgcgacg ccgtcatatt 180
 cccggccccg gcgctcgtgg gcgctgccga cgctgctgag aggaacgagg gcgaggagg 240
 caccgcgcta tacccaaggt tcgtgttcga ggactacatg aacctgtacg tgcgccacaa 300

gttcgaggcc aaggagccac ggttcaaggc catgaaggca gacgccgcgc ccatcgccac 360
 cgcgtgataa ctgatacgcg cccggaccgc gacgagagta ttgtgagacg tgttttaatt 420
 tc 422

<210> 8453
 <211> 170
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-046-Q1-E1-E8
 <400> 8453

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 atctgcaagt tatcacgtgc tggccgtact acagtgtgat ttacacgtgt tctaactgct 120
 gtattgtatc atcatgttca tcgtctcttt ctacatgccca ggcgcttact 170

<210> 8454
 <211> 412
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-046-Q1-E1-F1
 <400> 8454

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 atccccaggg agggatgacg atcccatttg gaggggaaaa gccactccc gaaagatggg 120
 catggattga tccatctgtc ttcaagctaa ggagtgaac attcctcaga gataagaaga 180
 aatgtccagc tccgaactat gccgcgtact acccaatagg tgttgacttg tttgcaagcc 240
 ccaagaaggt ttgcacatc gccgaacaca ttgatcttcc acaagtcaaa tcacacgaca 300
 agctcccatc acttttgatc gtcaacatcc agatgcctac ctatcctgct gctatgttcc 360
 tcggggacag cgatggagaa gggttcagcc tttgtttgta cttcaaaatc tc 412

<210> 8455
 <211> 420
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-046-Q1-E1-F10

<400> 8455

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 ctgctccctc ggtgttgaat aggggtgcata ggggtactaaa tttgccccaa gttttgttca 180
 accgaggaaa gtiggacttg ttagttctca caattgagca agttttctaa tactccctct 240
 gttccatatt agttgtagtt gatttagtac aaagtttata ctaaatacagc gacaactaat 300
 tatgaatgga ggggtaatat gtttttgcac accgaaggac gttcctaaca taaagttttc 360
 taatataaag atgttccgaa tttaaaacta tccatgaatt ttgaaaactg ttcatttttt 420

<210> 8456

<211> 346

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-046-Q1-E1-F2

<400> 8456

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 atggacaaaa aggtggtggt caacttctac ccgcggtgcc ccaagccgga cctcaccctg 180
 ggtctcaagc gtcacaccga ccccggcacc atcaccctcc tectccagga cctcgctggc 240
 ggcctccagg ccaccgcga cggcggaag acctggatca ccgtccagcc catctccggc 300
 gcattogtcg tcaacctcgg cgaccacggc cacttctga gcaatg 346

<210> 8457

<211> 403

<212> DNA

<213> Triticum aestivum

<223> unsure at all n locations

<223> Clone ID: LIB104-046-Q1-E1-F3

<400> 8457

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 tcctgagaac actgtagtgc ctgagcaggt ggatgagtat gtagatattg atgacgagat 180

gccaacccgca acttaccgat cagtggagat cgagaagggc gctgaggcca cgagtgtctc 240
 tgggtggttcg ggaagtgggtt cttcatcatc cagtggttca gggtcaggga gctcagggga 300
 cagcgcctca gaagctggcg atgctcgttc tcttgtttag aggaggttgt tctaacagta 360
 ggatttgagt angtgaggga tgtgagtact taattctggg atg 403

<210> 8458
 <211> 168
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-046-Q1-E1-F4

<400> 8458

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 aataaatgcc ccctggcct caattcgggg cttttccccg gggaaaacaa ttacgttaat 120
 gacttacggt ttaacaaaaa cttccccggg aaattcaaga tttctcca 168

<210> 8459
 <211> 354
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-046-Q1-E1-F7

<400> 8459

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 gaagactctc ttcattacc gaatttcaga tcttggtatt gtattcacac agcaggcaaa 180
 gaaaacaaa atggcattgc acggatagca caacacatgt gaagaagcag aaacttaggt 240
 tcaaccgata ctaatcgata gttgttgaag aagaaggtg ggacgcctag cggggcatcc 300
 cgatgcctta gatgcttgag acttcttgaa ctactgtcat ggggtgcctt gggc 354

<210> 8460
 <211> 362
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-046-Q1-E1-F8

<400> 8460

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 ggaagatgtg caactcatga tggttgtcat gaactcgcac ggagattgca tcaaccatgt 120
 caacagttca actccttctg catagccaac ttcggggtca tgatagacgt cgccaaggac 180
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 gctacgtgaa acatattcag tcaccgacct agccagggtc cgatgcattc tcagcttcag 300
 ctggacgcag gcccaaactc tgtgtgagta ctctatttgc aaccaatagt catcaatgat 360
 ga 362

<210> 8461

<211> 388

<212> DNA

<213> Triticum aestivum

<223> unsure at all n locations

<223> Clone ID: LIB104-046-Q1-E1-G1

<400> 8461

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 ggacacctac tcaagttgct agccatgctc agaagtattt cattcgccaa acaaatgtta 180
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 cactctcccg ttcacgtgca caagagatgc cgctctcccg ttcattctca caagatgtag 300
 aagagttcgt agatgatcta cggcctgtta ctgctcctgt gacnacaccg gtcctatgc 360
 ccgtgataac atctgtttct gtccacca 388

<210> 8462

<211> 423

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-046-Q1-E1-G10

<400> 8462

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 tcccaatcca tgaaatctga gtaagtttcg ttagatccgt gtagtgtatt gatgttttga 180
 atggtacagg tgataagaga ttagttgttt catatgtgca aatgatttct tctagtaatt 240
 cgactagggc cagtgttcgt gctaataatt cctagccagg gcttgacaat tgattttgaa 300
 tgacctaaat atgtttgtgc cattattttc ttcaagattg gtctatacat agacgactgt 360
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 cta 423

<210> 8463
 <211> 320
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-046-Q1-E1-G2
 <400> 8463

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 ccaagtttac cttcatgcat gcacgggtgtg gtgtgcccgt ttccttcaac ttttgtacaa 180
 aatcatgcat cagggcgtag ataccgtatg gcatacatat atacatagag cgagaaatat 240
 agtagagagc ttcgtggtac attattggtt ttattacggc actcatctct ggtttgctgg 300
 tgtatggact caggaggagg 320

<210> 8464
 <211> 326
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-046-Q1-E1-G4
 <400> 8464

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 tggcccaaat ttggaataag caaccccccg gtccggaacc cttggaccaa atccgggaaa 180
 ttggcgcaat caaccaattc aaagccaaca tcgtgtacct tgctgcggc gacaaaattc 240

ttggcgtcga tgtggttact aagaagataa ctaggatttc tggcttagct atagctgtgc 300
cagatctccc cctactacca tgtgtg 326

<210> 8465
<211> 404
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-046-Q1-E1-G5

<400> 8465

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acaacaacaa gatcaactgg gcaatgaaag acaagcaaga gtttgttgac attgtggaga 120
ccgtctacag aggagctcgt aagagccgtg gtctgggtgat tgctcccaag gattactcca 180
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tgttctgtga aatgagctgt gtgacccttg atgtaatgtc tgtcaacttt gaaagtgtcg 300
cgtaactatg tatttgtatc ttaaatacat gtcataaacc tgtaaccctt tgaaacagga 360
cctgctgtct attggtatta ctgattaaag tgatatttgg ttg 404

<210> 8466
<211> 396
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-046-Q1-E1-G8

<400> 8466

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aatatccgat ggctgtcctt aaagtttagt ttctcacaga aatataccat cccaacattg 180
acaagcttgg tagaatatgc ctgcacatcc taaaggacaa gtggagtcca gctcttcaga 240
tacgactgt tcttcttagc attcaggcac tgctgagcgc cccaaaccca gatgatcccc 300
tctcagaaaa cgtcgcaaaa cactggaaat ccaatgaagc tgaagctgtt gagacagcga 360
acgaatggac tcgtaagtat gccaatggtg catgac 396

<210> 8467

<211> 384
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: LIB104-046-Q1-E1-H1

 <400> 8467

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tgctgttggc aatggacata cttgtgatag caatcaccct catatgcctc tcatgcctac 180
cgggaaagat ccgggaaagt ctctttcttg ggtagacacg agcttgtccc tcgtcgagac 240
ggttacgacc ggcggggcag ggggaggtat gatgagtggg ggttgtgtct gatggatgtg 300
agatattatc cttgagctaa tcatgcagga aataacttaag cctcctgagt cggccgtaga 360
tcgaatectg ttccagtaac cccc 384
  
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<210> 8468
 <211> 422
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: LIB104-046-Q1-E1-H10

 <400> 8468

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tacttgataa ttgttttgag atatggagat ggtgatatta gagtcatgct agttgagtag 180
ttgtgaattt gagagatact tgtgttgaag tttgtgattc ctgtagcatg cacgtatggg 240
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gcggtcgggg acgagcaatg gtcttttctt accaatctat ccccttagga gcatgcgcgt 360
agtactttgt ttcgataact aaaagatttt tgcaataagt atgtgagttc tttatgacta 420
at 422
  
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<210> 8469
 <211> 402
 <212> DNA
 <213> Triticum aestivum

<223> unsure at all n locations
<223> Clone ID: LIB104-046-Q1-E1-H11

<400> 8469

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tatcattaat gtggggcgga gacggatgga cggacggtag ttctgtcatt tgaaggcgga 120
gcaatcacct gcactangaa gcgcgacggg cgacgctgac cgtttcgggc ggaaagcacg 180
cacaagcgag ggaggaggtc tgggtgggcc agggcagtc gactcgtgct tggcaacggg 240
tcgggtccagc agccggacat gctggctcgc cagcaagctc gcctagctga gcgacgacaa 300
tcagatgatg gacgtagctt ccaaccagga gccggcgcca ctgtccaagc cggttcatgc 360
catgttcacc atagagcaag tgcggctgca cttcgacgcc ct 402

<210> 8470
<211> 399
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-046-Q1-E1-H12

<400> 8470

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ggctgcggtg tgaggctgcc gtcgccgcag ggcctggcta gcggtgggaa tagtaggggc 120
ggtgaggcct ctgcggcagc acagccggcc ataggaggca ggagcatgcg gcacgaccaa 180
cgctgctttg ggcggtgga gcaagaagac caagaagcac tacggccatt ggatggacat 240
cgtacgggtca ctggagctag aatcgttcat attgactaag ttgacaaagc cctccgtctc 300
cgtcaactta gtagggccac aagtcagcct cccaccatgc tgggtcccag ctagcagggg 360
ggtattcatt tttttgtgcg taataaggag gcacttcct 399

<210> 8471
<211> 383
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-046-Q1-E1-H3

<400> 8471

cgggtcgacg ggaacggcta catgcaagtc tgatcgattc gaagcagggt gagttcagtt 60

cagctagagg aagacgaagg cgcttcgatc agtccgatct cctgctcctt ttacatgatg 120
 attactatta tcttaatctt agtgcagtgt tatgtaatat gcacatgaa ttggtagtgc 180
 agtgcagtgc agcacagcac atctctgaac ctgggaaggt actactagct ttcttttcac 240
 tcagacaagt cgggagggg tttcttgta gttagtcggt ttctggcttg tcagtagctg 300
 tgggtgcgtgt cgtgtggatc gagttagttg tactaccaga aattcggaat gacatggaac 360
 ccatgcatag catagccgat gac 383

<210> 8472
 <211> 390
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-046-Q1-E1-H4

<400> 8472

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 aatttacatc accgaccgac aaataaaaaa ttgatggcca ttgataaggc cctggtttga 120
 tcccttcggt aaactaccac tgacctgcaa gccattaaat accgtttgtg atgacaaagt 180
 cattactaac cctgatgggt cattcgcgca tcagtgatga tacaatttgg ccgatcagtg 240
 ctattcgggt ctgcagtagt ggtaaacaag ctaggattag atataaccga atatacatgg 300
 agacgaagat gtatcccgat gttctcttcc ttggaggaga actagtcacc gctagagagg 360
 tgggaattca tggatacggg ccaaatatgt 390

<210> 8473
 <211> 410
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-046-Q1-E1-H6

<400> 8473

ctaaaacact gcagaatgtt cattcgtgcg agaattggct gccaaaggagg gtgatgagcg 60
 cgtggcgcgt cgcggggatc gttcatgcgt tggagggatg ggacgagcac gagtgcgggg 120
 acatggtgct cgacatggac aaagtgttgg ctgccgcact tctgcacggg tttcgccccg 180
 ttgctgagggc ttgatcgtct ggttgcaagt cgagtgaata agcgttacgc agataaggtc 240

atatgctcgc tgaagggcca tgctgaggaa gaagaagcag acttattggc tagcagatga 300
gtggcctata attaattaag tactactact agtttgatct actactacca aggttacttg 360
gttagctatt actactgcat tattcatctc ctacgataat gaggtaatga 410

<210> 8474
<211> 418
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-046-Q1-E1-H9

<400> 8474

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atcatcagcc ccatcatcag ctatcaactt catcgtaag gatctcagac cctgaggctc 120
actcaattaa cgattgcggg cggttctaac ctttactctg aatgcgatgc ctggttgcaa 180
atctacctat atgtgctggc tttactctca aagctatttg gtctatcaca gtaactaaat 240
caacactaat gtgtacggca gcgttgata gattctcgct cagatctaac acaatcatga 300
aactgaatca tatttgctct tgaacttttt gtcacccatc gtttgcataa acatatgtat 360
acttttcaat ttgtacttgt ccggacaagc ggcaaccgtg ccgcccgcca tgcaaate 418

<210> 8475
<211> 400
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-047-Q1-E1-A11

<400> 8475

gggtcgagga agtgaagctc ttctcaccg gcgtcgatga aggtaacgat ggcgctaggg 60
cttgagagct cgagcgaggg gagtgagatc gagcggggta aatgcagtct gaggaggggtg 120
aggggtatatt aaagccgagg tgaaaaaccg ctgcgccaag gaaaatggac gaacgtgccc 180
ctgacccttc tcatcctagc gacatgtggc acccagctac agtgtggtgc aaatcgtgtg 240
agatcggtgg tgactagata actcttatcg tgggatgtgg gacattttga gcggcaaaag 300
ccgaaaattc ggataagaat attttaatgt ttcgttctca aattcttcag ctgacaagga 360
tacagtgatg attttgaacg agtttcaaat agaacgcaca 400

<210> 8476
 <211> 357
 <212> DNA
 <213> Triticum aestivum

 <223> unsure at all n locations
 <223> Clone ID: LIB104-047-Q1-E1-A4

<400> 8476

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 aaatacttca gatagaatga actagcagct aactatgagt ggtagaggac caanggggaa 120
 aggaggaaaa ataaaaggaa gaacgcagga ttttgaccaa caatcagtaa ggggttgaca 180
 cgtgtcgcaa aaataaaagg aggaaaaatc tgggactgac caacaatcag tccacagatt 240
 ttgttttcag tttagggtoga attttttgcc caataagggg ttgacacgtg tcgctgatat 300
 ttgagctgct gtatgcaaca aattcgacgg attcgttcga aagttgcctg gacggcc 357

<210> 8477
 <211> 285
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: LIB104-047-Q1-E1-A5

<400> 8477

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 catcatgggg ctcttgtggt tgcattggcct cataaaccac tccatgtgag catcgcatcg 120
 tacgtgcagg gacagggtgt aattttcttg ttagatgcat gctcagatgc atctatcctg 180
 cagaccagtc ttcttcttct tttctttcct tggaaaacct tttgtggcgt gatttgttta 240
 agccttaggt ctgccaatca atttagcaag aataagttta tgttc 285

<210> 8478
 <211> 257
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: LIB104-047-Q1-E1-A6

<400> 8478

ggggtgtcca tgtgctagcg ttcttcgctg tcgggtggtgc catcgtggta ctcactcatc 60
atggggctcc ttgtggtgca tggcctcatc tgcactccat gtgaacatcg catcttacgt 120
gcatggacag ggtgttattt tcttggtaga tggatgctca gatgcatcta tctgcagag 180
gaatcttctt ctttctttca ttctttggga taccttttgt ggcgtgattt atttaggctt 240
caggctctgcc agtcaat 257

<210> 8479
<211> 391
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-047-Q1-E1-A7

<400> 8479

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caagggattt ttacatctgt gtccttggtt ccttagctct actcattcat ccccgcgctc 120
taaatttttg ccaattttcc ccaatccctt gccagaaacc ctcataactg ggcacaacga 180
acattgccgt cgggtcatag gcttgaccgt taactctgac tagtggggcc acgctggact 240
gtgttgccg ttcaacctga caagtggggc tgcgctgggt ggtgtcgctg tttgaccgtt 300
gggccgtggt ttcgttgggc cgtcccttgc attaaacgtc tgcgcgcact accaggacaa 360
aagcctgcta tgcattgcacc cagcaaacc t 391

<210> 8480
<211> 380
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-047-Q1-E1-A9

<400> 8480

ggctgaccac tgggcgccgg cgaacaccaa caggcgcacc tgaagcgaag cccgaggcag 60
gcctcgacgg cggcgatggc cgcactgcgt ggcaggggta gaattccggt gcaagcgcgc 120
gcatgcgcac ggctgaccca attcgggtcaa tctcctaaca caatcgtttc gtttcgtttc 180
gtttccgtga acctcaatca gcagaccctg tgctggcgcc ggtagtatgt aatgtgtaat 240
cgctcgtgat agcgagacga cgcaccgccg atcgatogat cgtggtcgag tcgttgcgctc 300

agtgactatg tgcattgtgt ttaacatggt agcgacctgt tgctgtcgcc gactaatcat 360
caaaatcagc agttccattc 380

<210> 8481
<211> 398
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-047-Q1-E1-B1

<400> 8481

aattcgcgag ccgattgaat ttttacagat actcagccac atattgattt ccttggacaa 60
gcgcgagaaa ttcacgtgc ttggccttca taactccagt agggatgtga tatttgcgga 120
acttatcctt gaatttttcc caggtgactt cctcattaat cggccacatg gcttttgtat 180
tttctacca tatggcagct gcgccttcaa ggtaatgggt tgcaaattggg actttatcat 240
ttccttcagt acgggagcgc tcaagctttt tctccatggt gcgcaaccaa tcgtctgcat 300
ccaatgggtc agcaacctga ctgaaattgg gtggattggt cctctgaaaa tctgacagct 360
ttgagtgatg accattctga tttccatttt gtccaact 398

<210> 8482
<211> 409
<212> DNA
<213> Triticum aestivum

<223> unsure at all n locations
<223> Clone ID: LIB104-047-Q1-E1-B10

<400> 8482

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cataagggtgc aactcttcaa ctgtgtaaat attcaagttt ggtcacaata ccttgtcagt 120
atcaaccaga actgtcaaat gtgaggttga aggtttgtca tgcctcgcca cattagcacc 180
tggcagatca gaaggtttat tcgtgctttg attctggtaa gcacgatggg aggaaccaat 240
agctggactt gcagaaggga cagtccgaga agccattgta tttccagaca tttgatgtgt 300
atcttttatg ctagtattag caggcctact agcancagat gtgccagtac tgaatacagg 360
aggctccaaa gaaacggctg atcacaaatc tgtggtgtgc tgaaaatat 409

<210> 8483
 <211> 396
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-047-Q1-E1-B2

<400> 8483

attccccgga cgacgggaag gcagaataaa actttaatgg aagctcctac attcaacaca 60
 ttctgggaaa aggatgttgc agagtctgtg cgccaggag atgcgcagcc atttgtcgag 120
 gaagctgtgc tgcaagtatc tgattgggggt ttcagcttgt cagatattca aatgcagaag 180
 aaagaggatc agggagtatt tgaatttatg aagtctctgt tcagtcaggc tgaacgagag 240
 tgggcgggat ttctgggccc aatccacatt tggcaggga tggatgaccg ggtgggtgcc 300
 ccgtcggatga ccgagtttgc caggaggatg gttccaggag ccactgtcca caagcttctc 360
 gacgaaggcc acttctcata cttctgtttc tgcgac 396

<210> 8484
 <211> 402
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-047-Q1-E1-B3

<400> 8484

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 tgattaatgt tgagtccatg gattatacgc accctttcac ccttccatta ttgctagcct 120
 ctcttgtgcc ggcgaacttc accggtacca tacaccacc atatatcttc ctcaaaacag 180
 ccaccatacc tacctatcat ggcatttcca tagccattcc gagatatatt gccatgcaac 240
 tttccaccgt tccattcata tgacatacat tacttttgtc atattgcttt ttgcatgaac 300
 atgtagtga cattgtatgt gtggcaaggc caccttcata atttccatac atgtcaatct 360
 tgattcattg catatcccgg tacaccgccg gaggcattca ta 402

<210> 8485
 <211> 408
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-047-Q1-E1-B4

<400> 8485
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 aggaccacca ggacgagatc tgcgagggtg tgetgaccaa gagccccgac gcgtcgtgcg 180
 ccgagatcga ggagtccgc gaccgcgcgc gcgtcccgt caccagcaac aacggcatga 240
 agcagcaggg caccgccttc gccaaaccca tcgccttctt cccaaggag ccgcgcaagg 300
 agtgcgggcg catctccag gcttacgacc tcaaggacgc acccgagaac ccatgaaccc 360
 ccatcccatc catatagtct cgctcagttg cttcccatca tcatcatc 408

<210> 8486
 <211> 402
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-047-Q1-E1-B5
 <400> 8486

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 aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa caaaaaaaaaa agaaaaaaaaa aaaaaataaa 120
 aaaaagaaaa aaatgaaaaa aaaaagagga aagttaaaaa aataaaaaata aaaaaagggy 180
 ggcgtttcaa ggggttcaag ttttatttcc gggttatggg aattttaaac ctttttaaag 240
 ggtcccaaaa ttttaattta aggggggtttt ttttaaaagg ttgtatgggg gaaaaccctg 300
 ggttttccca attttaccct ttttgaaaaa atccccctttt tccaaatggg gtttattact 360
 aagggggccg aaagggttgc cctttccaag attttgccaa cc 402

<210> 8487
 <211> 336
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-047-Q1-E1-C1
 <400> 8487

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 gcgagcacia ggaggcatg atggagaaga tcaaggacaa gatcagcggc gacggcaaga 120

aggacggcga ccacaaggag aagaaggaca agaagaagaa gaaggacaag aagcacggcg 180
 agggccacaa ggacgacgac ggccacggca gcagcagcag cgacagcgac agcgactgac 240
 ccagctccgg cccgcgctcc ggaaccgttg cagtgtaggc aaaatcaatg atgaacactt 300
 ggaaaaagtg tgacagacat atatgttgca gggttt 336

<210> 8488
 <211> 418
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-047-Q1-E1-C6
 <400> 8488

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 acggtcacgg cttcctatgg tcgtatcctt cctggtcgtc ttggagtcct cgcttcggcc 180
 gtatccttgg tggattgtc atctacatgg tggctccag cttatcatca ggggtgcttg 240
 tcgtcgcttg ggtggtcttt tcagtcccc gccatcttca tgggtgtgtg attgagtgtg 300
 gtggtggagt gcgtttgtat cttcttactc gaatgttgtg gtgatgggtg ctttatatat 360
 aaagcaggga accccttttt cgccaaaaaa aaaaaaaaaa gctaaaaaaa gaaaaagc 418

<210> 8489
 <211> 77
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-047-Q1-E1-C7
 <400> 8489

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 tgatcgtaact tgtctct 77

<210> 8490
 <211> 407
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-047-Q1-E1-C8

<400> 8490

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 tggcacagtt catgtgcgcc atgaattagt aatgcgcaac cactgcactc acgtatgatg 180
 agccgacaac gacgatgtgg tggtaaactc tttttgcaga ccgcgaggcc gctgaggcct 240
 gcttcggggca gtgctatgac ggctgcaaga ccaagactcc ctgccgaggc ctctccgcgc 300
 cggcgccggg atgcccacca cgttaggccc ggtggtcgcc gaccttcctt catccgagcc 360
 ggacccggat gatgcggtcc gtgcgtcgtc agaggcgccc gaacatc 407

<210> 8491

<211> 390

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-047-Q1-E1-D3

<400> 8491

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 gccttcttga acttagtggg aacaacgcca ttattgtcat ggatgatgca gacattccgc 180
 tagctgtgcy ttctgttctg tttgctgctg ttggcacagc aggacagcga tgcactacat 240
 gtcgtaggct gcttcttcac gaaagcatac atcaaacatt tcttgatcaa cttgttgagg 300
 tttataaaca agtccgtatt ggggatccta tggaaaaggg accttgctgg accaaccgca 360
 actactacat caaaaggaaa gctttttgaa 390

<210> 8492

<211> 411

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-047-Q1-E1-D4

<400> 8492

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 cggttttaaa gggttggccg ggctaattgt ccaggcggac acggcccggg taggtctgtt 120

gactttttta aaaataaaaa ataattccac ttagaaaaac aaagaaaaga aataactaaac 180
 ggactccaaa aatcctgaaa taaattttcc ccttcctcta aaaatctaac ggacaagggtg 240
 aacattttatt tgggcctcta atgcaaattt tgaaaaacgc atattattcc taattcaaatt 300
 aaaatagcga taaaaactcc gaataaaatc ttatttgatt ttaatatata atctccaata 360
 tttcttgact ttggggaagt cattttatcc cctccctttt aatttcaaaa a 411

<210> 8493
 <211> 417
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-047-Q1-E1-D7

<400> 8493

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 gaatcggatg atttttggag tctgtattta ttggtggaaa agaggcttag agtcaaaggc 120
 taggcaatgt gggactaaac gtagacaaaa atatatgaaa cagagaagaa aagaggcgga 180
 tgggcctaaa ggccttcggc ccgccgcgcg cacgctgcag ctgcagtttt ttttaaaaaa 240
 aattcggcct aaaaatgaaa aggctggcta ggcctggctc atttaagaga ggaaaaaac 300
 aatggggcgc cagaagctac tatactgcgc atgtaggcga caaataaata tgggccgcac 360
 gtacattttt taaatagaa acagaaggaa aaccgaatag caaagattaa ataaaaa 417

<210> 8494
 <211> 378
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-047-Q1-E1-E3

<400> 8494

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 aataacgctc ttgttcaacc gtcaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 120
 aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 180
 aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaagggggc ccacaaaaga ttaaaactaa 240
 atatccggga aaaggaaatt aaaaaccctt aaaaagggga cacaaaatta aattaaagg 300

gcgactttta aaaaaattca aacgggaaaa acccgggggt aaacaaaata aaaccctta 360
 aaaaaaacc ctttttcc 378

<210> 8495
 <211> 361
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-047-Q1-E1-E4
 <400> 8495

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 cactgccaga atacactagt tagcaggtac accagttcca gctgagctgc tgagcaaagc 180
 tcatcatact actatacatt ttcttcatct acaggggttg ttcattgggtg atgggctgac 240
 atgttggttg tgggcattct tgtacttttt ttttgacca gattctttga tgtatttttt 300
 caaaaaaaaa aaaaaaacca aaaaaaaaaa aaaaaacaat aaaaggaaaa aaaacacaaa 360
 a 361

<210> 8496
 <211> 431
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-047-Q1-E1-F10
 <400> 8496

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 gacggtgtta ctggcaatga atttatagga ttttttccct cttcaccttt gagttagtaa 120
 cttttctccc caaaaaaaaa aaaaaagaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 180
 aaaaaaaaaa aaaaaaaaaa aaaaaaggag caaaacaaaa ggaataaaag ctaacaacaa 240
 aataaaagca acgtcaaagt ccctgaaacg tagtcaacca aattcaattc atcgagaagt 300
 cgtaaagaa aatacagaga ggtaaaaccc tgtagtcacc cagtataaca gcattgtaac 360
 aaaacccggt gtcaaaagca agaggaatac ccaaaaggcc cgtaccaata gcggtgcaca 420
 agaattgggc a 431

<210> 8497
 <211> 418
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: LIB104-047-Q1-E1-F2

 <400> 8497

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 cattgtgaac aagttcttga agggagaggt tggcccaaaa accgtccatg ttccatcagg 120
 ggagaagctt gctgtttttg atgctgctat gaaatacaag aatgaagggc atgacactat 180
 catcctggct ggtgctgagt atggcagtgg aagctcaagg gattgggctg caaaggggtcc 240
 aatgcttcag ggagtgaagg ccgtgatagc caagagtttt gagaggattc accgtagcaa 300
 tcttgctgga atgggcatcg tccctctatg cttcaaggct ggggaggatg ccgacagtct 360
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<210> 8498
 <211> 392
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: LIB104-047-Q1-E1-F4

 <400> 8498

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 ctcaagatag catatattat ggtgggtgaa caaattactg ccgagcaatt gatagaaaag 120
 cgcatagtta tgatgatatc taggcatgat catgaacata ggcatcacgt ccgtgtcaag 180
 tagaccgaaa cgattctgca tctactacta ttactccaca catcgaccac tatccagcat 240
 gcatctagag tattaagttc ataagaacat agtaacgcat taggcaagat gacaggatgt 300
 agagggataa actcaagcaa tatgatctaa aacccatctt tttatcctcg atggcaacaa 360
 tacaatatgt gccttgctgc ccctgctgtc ac 392

<210> 8499
 <211> 407
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-047-Q1-E1-G2

<400> 8499

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acctccaccg gcacagaagt cgtgatgatc gatgtctccc caagctcagg ttggatggcc 120
accgtccgcg gccgatgcct tgccctttcc cttggaacag gttgtcatgt ggcgactgg 180
aagcacccat tcacagtga actcctccaa ggctgcgagg agcaaggaca tgggtgcattg 240
atcgcatgtg tgtagaagggt taatccaacy cactcacgcc agagccgaga caccatacct 300
gcatgcatgt tgttgtgctg tgggtgtgca tgtactccct ttgtaccgaa atatttctag 360
ttgaaaagtt atcacgtaaa atgtaaccgt ttttaaggaa agaaaaa 407

<210> 8500

<211> 371

<212> DNA

<213> Triticum aestivum

<223> unsure at all n locations

<223> Clone ID: LIB104-047-Q1-E1-G4

<400> 8500

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tcggccattc ttgctgcaan aagccctttc tttttcaagc ttttctcaa cggcataaaa 120
gagtctgaca agggacaggc aacacttcga atagctgatt cagaggaaaa tgccttcatg 180
gagcttttgt actttatgta tagtggaag ttgacaccaa caactgagcc cactcatctg 240
gttgatatct tgatggctgc tgacaaattt gaggtcattt cttgcattaa gctttgcggt 300
cagttgctca caagcttgcc tatgacccca gaatctgcag tgctgtgcct agatctacca 360
tattccattt c 371

<210> 8501

<211> 320

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-047-Q1-E1-H1

<400> 8501

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 agcggcctgc atcaatggct ctgcagttgt tctacgtact agtacttctt tgttcgaaag 180
 aaacacaatt ctgtagttga tcgtggcaaa attctttgac atggatccac caacggggca 240
 tccatctgaa cttttgttgc agcatcagta tgtgcactgt ttaacccgca aaaaaagca 300
 tgtgctatgt ttttttggcg 320

<210> 8502
 <211> 333
 <212> DNA
 <213> Triticum aestivum
 <223> unsure at all n locations
 <223> Clone ID: LIB104-047-Q1-E1-H12
 <400> 8502

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 cgtttattaa tctaggtcca tggttgatgt gtgaatactg ttgccatcgg ggtacatggg 120
 ggtagcccga cggccatgat aagccgacgg ccacggctag gctatcgccg tatttggcgg 180
 ttggagcacg aagaccatca agcactacgg ccattggatg gacatcgtag ggtcactgga 240
 gctagaatcg ttcattattga ctaagttgac aaagccctcc gtctccgtca acttagtagg 300
 cccacaagtc agcctcncag catgctgggt etc 333

<210> 8503
 <211> 393
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-047-Q1-E1-H2
 <400> 8503

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 gtcaaaagat gattctgggc tgtctccaaa catcacagaa aggtaatgtg gttgggaaac 120
 tgatgatgcg catgccagga cgtgctgatt gtacaacttg atgtaccaat gcattggtag 180
 ggtaagacgg cttttgccat gtcgggtgcg ctcgcttggc aagccacaag tcaataaaaa 240
 gtatatttgg tgggtgttgc ggggtggaga tcgcacggga acaatctatt tgttctattt 300

tgccccgggtt ctccaccctg ccatgggtgc tctgtccttc tctgtgttg ttgattccac 360
cgcatcatct gaagtacacc gcgatcctac ata 393

<210> 8504
<211> 376
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-047-Q1-E1-H4

<400> 8504

ggcgaccgag gcgatggact gctgaggggt ctgccttggg gaaattacgg gtgcaacgtc 60
gtgtccaatt gctgggccta aagtccaatc ctttaaagggt tcgagttccg ggccaaaatt 120
tgtaagccgg cggcgcaaca acaccattgc cccgggcata tacaacaacg gcaccgaatc 180
cgtatccata taccaccacc aatccgtgtc catataccac caccgatcca tatccatata 240
ctaccaaccc caacagcccc cacaacctca actgcagctg catcctcaag cacagcagcc 300
tcaacaaccc caatcgcaac tgcattcatc tcaatcacag cagcccctgc atcctcaact 360
gcaaccgtat actcag 376

<210> 8505
<211> 412
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-047-Q1-E1-H6

<400> 8505

ggccgacggg tgtacccagc ggaggecatc tatgccaacg ctgggggtcta cctcttcaac 60
aacgccacca gcgcccggt caacgtcacg aggtctgtcg tccacgagat ggactcctcc 120
tacaatcagg cctacatgac ctactgttaa aaagaaaatg caaatattat ttttgtttag 180
taaaaatatg atagatagca cattgtatgt actgttttta gaccaaggaa ggtcgtctca 240
tttcttcggt aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 300
aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa taaaaaaaaa 360
aaaaaaaaaa aaaaaaaaaa aataatataa cataaaaaaa aaaaaagggg gc 412

<210> 8506
 <211> 392
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-047-Q1-E1-H8

<400> 8506

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ggcgaccgaa gcgatggcct gccgggcggt cggcggcggc gagagcaagc tcaaggcgga 60
ggcgacgacg gacaacaagg ggtggtacaa gatcgagatc gatcaggacc accaggacga 120
gatctgcgag gtggtgctga ccaagagccc cgacgcgtcg tgcgccgaga tcgaggagtt 180
ccgcgaccgc gcgcgcgtcc cgctcaccag caacaacggc atgaagcagc agggcaccgc 240
cttcgccaac cccatcgctt tcttcccca ggagccgcgc aaggagtgcg gcggcctcct 300
ccaggcttac gacctcaagg acgcaccgga gaacccatga acccccatcc catccatata 360
gtctcgtca gttgcttccc atcatcatca tc 392
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<210> 8507
 <211> 354
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-048-Q1-E1-A11

<400> 8507

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acagctctcc acggcaatgc ttttgagcgg cggagcgta tcacactgct cagctttaac 120
tgatttcctt ttcttgcat aggtcaaagc tgctgcattg atgctaggag cattattaga 180
tgaattctca tgatccacta acagcgcttc tgcgacggtc gcgagcaaat caaacgggga 240
catctcatct ttctttctcc tggctgagcg tttccctga atcatcaccg ggcgttaata 300
cataatatcc agcacgaaaa ttgcgcgggg tcatggcagg tagtacagga tatc 354
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<210> 8508
 <211> 120
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-048-Q1-E1-A2

<400> 8508

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ctttaacagc tccatgcctg cataggaggt tgcacagct gactgacgtt atccaccaca 120

<210> 8509
<211> 423
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-048-Q1-E1-A5

<400> 8509

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gggttttcac ctcatgtatc ctctcccact tacccttcg tggcttagac tttaaataga 120
ccacctccac cttctttcta ggggaagcaa atatgatagc tcattcttag gtgagctttg 180
ctcctacctc tacctaagag gcaaggctct atacactaga atagttttga tgtgtcccg 240
caactcacag aacgaggaga agctttctta gtatgccgtc tccccgccca acgggcacgg 300
tggcttgag gatgaggatg agcttgctta ctagtacgcc ttatgccgc tccctggccc 360
aagcgcgtgg ttgatcacag gacaaggaga aaattttact actccgtcgt ttactcctca 420
acc 423

<210> 8510
<211> 424
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-048-Q1-E1-A7

<400> 8510

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agcctgctaa cgatggggaa aaagaaagtg ctgcgcataa gaaggggaaa gataatgagg 120
agggtaataa ttctgataaa ggtgaggaga atgaagaaga ggaagccgct cgtaaagata 180
ggctcgggct ctctaaaagg ggcattgatg acgatgagga aggtggaaaa gatctagatt 240
ttgatttga tgatgacatt gagaaagggt atgactggga acatgaagaa acattcaccg 300
atgatgacga ggctgtgat attgaccagc aggagcgggc agatttagct cctgaaattc 360
ctgctccacc tgaaattaag caggatgatg aagagaatga ggaagaagggt ggctgagca 420

agtc

424

<210> 8511
<211> 417
<212> DNA
<213> Triticum aestivum

<223> unsure at all n locations
<223> Clone ID: LIB104-048-Q1-E1-B1

<400> 8511

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ccgggccttc agaagcagcg ctaccagat ctgaccaagg ccgacgaggt ctgctttgaa 120
acctgctaca aggagctgac caatggcggg gagaaactcg acaatttgtg cacgagcaaa 180
gaggggtccg acgatatcgg catggcccag ctccccgaaa tccgtagctt catcaaggag 240
aacaacgggtg cgcattgcca gtggaattgc gatagggtgc gccctgcaaa tgacaagaag 300
acacccgatg atgtctccaa gaagaacgat gctgagaagg ccatggctgt cctgnagggtg 360
cttgtcaaca aagtgaccaa ataaagaaaa acaaaccctc attgcatact actagct 417

<210> 8512
<211> 412
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-048-Q1-E1-B10

<400> 8512

cggccgcgag aaacacggag gcatcgggcg gacgagacgg cgatgacgag caggcggcca 60
tgtcatgtct taggggtgag tggtggcaat aagccatgca tgtgatggtg gcgaccggct 120
tgaaggcaac taggtcaagt ctgtaccgtg tgtgtgcact caagtccgac acgtacggca 180
tagccgatgg caagtgtgcc ggccaagtct gctagatgca tgcacgtagt tagttggagc 240
gcatctcatg ctgcaccatg tcgttgccgt tgaggatga tgcgcatgtg ctatatgtac 300
gtgcatgcat gtaggagtca gcaagaagtt agctgggttag tggccggtgg gcgtgcgtgt 360
gtggtggccg ggtagtggt gtgcgtgcat ctgtgctagc ccgggtataa aa 412

<210> 8513

<211> 378
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: LIB104-048-Q1-E1-B12

 <400> 8513

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ctgcaaaaaa aataaactag atcagattta agaaactcaa gattatgttc aaaaagaagt  180
ttgaatatga atctgaaaaa aaatttgaaa ttttaaaatc tcaaaaaagt tgatgtgaca  240
ggtgcactgg atacgtgaaa acaagacgaa cctataggct caggtttcat ctaatttgga  300
tacatgagtg aaaacttatg gctatttgaa aaatcatggt taaacggttt tacggaaaaa  360
aattagctac gggaaaag                                     378
  
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<210> 8514
 <211> 398
 <212> DNA
 <213> Triticum aestivum

 <223> unsure at all n locations
 <223> Clone ID: LIB104-048-Q1-E1-B2

 <400> 8514

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ttcccaagtc cacggggtcg taccaaggca agtatcagct tcgactgctt caccacaggg   60
aaggcgggtgc tgatccgcgg gttcngtggc caggcgaatg caatgtaccc gccctacacg  120
gcagagaaac agaggatctt gaggggcctc atcanaggca ctttctttgc gctgacctt  180
gcgctcctgg ggttcccaag ggagaagcgt tagctgagtt gagctccctc ctttctccag  240
tagagcatag caggattggt catgttcatg agggcgatgt ggtgcacttc tgcaactgtga  300
agcgccagtg cgcgagtgtg ttcaacaggt gtaaaatatg ggactatcat cggattttctg  360
gatgtaattt aattttacat aaataaacct ggtttgcc                                     398
  
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<210> 8515
 <211> 407
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: LIB104-048-Q1-E1-B3

<400> 8515
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 gagcctcatg gagaacatca aggagaagct ccctggcggc catggtgaca accaacagac 120
 cgctggcacc tacgggcagc agggacacgt cgccacgggg acgcatggca ccccggcgac 180
 cgggtggcacc tatggggagc agggacacgc tggagtgacc ggcacgggga cgcacggcac 240
 cggcgagaag aagggcctca tggagaacat caaggacaag ctccctggtg gccacggtga 300
 ccaccagcag accggtggca cctacgggca gcagggacac accggcgcgg cgacacatgg 360
 cccccggct ggcggcgga cctatgagca gcacggacac actggga 407

<210> 8516
 <211> 365
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-048-Q1-E1-B4

<400> 8516
 attcccgagt ccacggggtc attgaaaaga tcgacggagt gtgcacggac gctaaatctc 60
 atgtcagaac aatgtcaggg acatcgcaa cttcattgat gtagcactga tgatcattga 120
 aactcacttc tatattatca tgtcaggtta gacccaatat agtgaccctt ccagtcagtc 180
 gagaattgca taaagaaggc tacacccttg aggagtcctt tacatgcatc tagaggttta 240
 ctactacat gatacgtgct ctagacttca gcatcatagt agatatgagt cccacgttt 300
 ggattcaaca caatcattct gtgctttagc caccttttga gagagacaca catgattcag 360
 aactt 365

<210> 8517
 <211> 411
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-048-Q1-E1-B6

<400> 8517
 cggacatcgg cactgcgccc tgttgccctgg cacaaccaag gagaacctaa aaaatgccag 60
 gaaaaggaaa actccgttcc ggttaatggc ttcaaccaag cctccctcc aaaaggggca 120

acgcttgacc ctgaccaaga cccaagtac caccgtaacg caaataatga tgatgggttg 180
 ccaaagtagt atgtcctccg ggcaaggctt aatctgcttc ttcaaaaatt ggctgagaat 240
 gaccccaacc cgtatgggac accccaacg aagaaagaag cagtctaaac cctgcccacg 300
 gtcaaaatct aagagggttg caactgttca atctgtcttg atgatcttga tataagggtcc 360
 caccgctaagc aattgccctg tgaacataaa ttccaccac catgtatcct g 411

<210> 8518
 <211> 323
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-048-Q1-E1-B9

<400> 8518
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 tgggccctgg ttgctcgct cgcacgacct caaggaaaga acagctgttt tcttcaagg 120
 attcaagaac aatgacacca gctatgtcgt cctcatgtgc aacgacccta caaggctcgtc 180
 attcgagtcg cagatctaca ggccgacctt cgccggcttc gtcaacatcg acataaccaa 240
 gaccaagaag atcgccctca ggacattgat cgaccactct gtgggtgaaa gttttggtgc 300
 cggcggcaag acgtgcatcc tga 323

<210> 8519
 <211> 195
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-048-Q1-E1-C11

<400> 8519
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 taaatggggc aatttaagtt ttgccaccat ccaaaccgaa aggaaaacct ctgtccgggc 120
 gaatttaacc aaaaaatcat ttatactgga aatggaacag tcccgttcaa aggatccatg 180
 ctgacaaatg cctca 195

<210> 8520
 <211> 377

<212> DNA
 <213> Triticum aestivum
 <223> unsure at all n locations
 <223> Clone ID: LIB104-048-Q1-E1-C2

<400> 8520

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 gcagtgaac gtgatcacg ctccaacctc cgtatcgctg cgcatacagg tgacctgac 120
 ctctcaccat ttcactcact ctctcagcaa gctccgccat catgatcctc tgctgtgang 180
 gggaatccgc tgtcgagcac aagtcctcgt gtccatcacc gaggcacat catatcctca 240
 caccacggca aatggtacac acatactacg cataatgagg ggatgtacgc tattgcagaa 300
 tggcacggtc actctcccgt tttacacact ggccggacct agcctcccaa ccccaaaggc 360
 cttagccctg ctgacc 377

<210> 8521
 <211> 419
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-048-Q1-E1-C3

<400> 8521

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 cggggcattt ctacctcaa aatcaggagt caaatagtga catcgagaca atgcaacaaa 180
 tgcaggatga caacgcccgt tctttcatga ctcccaggat acagggcggc ttcacgaga 240
 cgccggtccc ttgattcgag ttgtctagtt ctgaaacacc gattgggtca tgttgtaatt 300
 aaacattagt gaactgttac tatgtctctt tggttttgag agtcgttcaa cttagaagta 360
 atcgatgcta tcaaagtctt gcttttctct tccgattggt ctgttgcata agtatatat 419

<210> 8522
 <211> 425
 <212> DNA
 <213> Triticum aestivum
 <223> unsure at all n locations
 <223> Clone ID: LIB104-048-Q1-E1-C5

<400> 8522

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ctcgcctcttc tcggcgttcg caagagacgg cgtgacctgt gaatacatcg agtgcggcat 120
gtaacatagg caaatagcct gcctgaagag tgagggagag aaaacctgca tagattttgt 180
tctggcggtt ttgtgtgtgt ttctagtgtg tgtttgggtt tattttccgc gcttatggat 240
gtacattaca ggtatataag acagcatagt gatgatgtct tcttcatggt tatggaagtg 300
aaagtaatgt tatggaagtg aaagtaatgg tatgaatgct gtcttcatgg ttataagaca 360
gcatagtgtg gatgttttag atacaanana aataaaaaaa aaaaaaaaaa aaaagcggcc 420
gctct 425

<210> 8523

<211> 408

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-048-Q1-E1-D10

<400> 8523

attcacgggt cgacggcgaa cgtgatgacc atcttcgagg aggaaggcgg gcggccggac 60
gccatcatga tcctgacggt gaagcgcgac aacatctgca gcttcatctc gggagaccaa 120
ccccgggcac gtgcggtctt gggagaccaa ggacagccag ctgacgatgg tggcggacga 180
cctgaatccg cgggcggtgc tgacgtgccc ggagaagaag atgatccagc agatggtgtt 240
cgccagctac gggaaccgcg tggggatctg cggcaactac acgtttggca actgccacac 300
gcccaaggcc aaggagattg tggagaaggc gtgctggggg aagaggagct gcctgctggc 360
cgtgtcgcac gaggtgtacc gcggggacct caactgccg ggcaccac 408

<210> 8524

<211> 351

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-048-Q1-E1-D12

<400> 8524

cgaaaccatc aaccagaact acaccgtgtg aggagtatcg gcattggacc aacaacatg 60

acatccgtat tggagcgaaa ttggaatgga cccccctta aaaattttcc cggggaatga 120
 atgaaacaaa catggctgat ctgacaagcc ccaagttgta aagtgtacc aaatatatgg 180
 tttcggttgc cgtcttcta gagaggtttt aatgttcaag tggagttata cgtgttttg 240
 accacggcgt ggttgaatc gttttcgcgt tttaccagcgt ttcccctaac tagtcgggtga 300
 tcttgcggaa gcaagaggag atataatcac tgcaaatttt ctgccccaaa a 351

<210> 8525
 <211> 391
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-048-Q1-E1-D3

<400> 8525
 cacggggacc caatagcgat ctcaaggctc atgccaaagc tgaacaact cgtgctcagg 60
 tacgcatagc tatctggcgt cggcctcaac tcgacgcag aaggatgcaa ggacctggag 120
 gtcttgacc tgtttggtg cggaatttg acgagcagg gcatagagca ggtgctgct 180
 aacctgaaga acctggagat gctggtgaag cccaactttt acataccgag gtcggccttc 240
 cacatggaga ggtacgggca ctggcagtta tacgacgaga ggttccagac aaacgtattt 300
 cagatatgaa aagaacaacc ctggtgttct cagggtcgcc tctgactgac aacgtctcgc 360
 atgctcgta ctgttatata ctgtatgtgt a 391

<210> 8526
 <211> 404
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-048-Q1-E1-D5

<400> 8526
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 gccagtctca ccgagtcgct ccgcgtcatc tccggcgctc tcgaggtcca tccgtcaagc 120
 ccgccgcca agaggtcaag gggatccccg ccccgagct caagaccatc ggccagatcg 180
 acgccgcta caggaccgcc gccaccgcc ccgacgtgc cccggtcagc gacaagttca 240
 ccgtcttcca gtccgccttc aacaaggcca tcaaggagac cacgggcggc gcatacgaca 300

actacaagtt cgtccccgcc cttgagtcgc cgtcaagca tgcctacgcc gccaccgtcg 360
cctccgcgcc cgaggtaaag tacgccgtca ttcaggccgc cctg 404

<210> 8527
<211> 427
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-048-Q1-E1-D7

<400> 8527

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cttgagagaag acatttgact gatgataaat cattcttacg tcaaactttg aaaagaattt 120
gcgaatacct ccgggaaaat aagaagagtc aggtaagatc ctggaaaaga catgtgggtt 180
agggccact caaaagaaac accgtagaac gattgcttga aaagagagag agcgccggtt 240
gaattaaatg gcttgaatga gataacaacc tcgaaatatt ttgaactgat cttgaaagac 300
gagacgagcc ttttgagata tcttgagcac tccgggacaa tagaatagcg agagatgaac 360
gattaagaat tgcaccggca tgagaaagca ttgaaatagc gaaaagaata tgatcacaca 420
ccgaaag 427

<210> 8528
<211> 421
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-048-Q1-E1-D8

<400> 8528

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gcaagatggt ggctattttg cttgccgtgc aggattcgct acagtacatg gtgtcttgcg 180
ctatatggaa gggctgaagt tgagctaggc attgttggcc atctaaatga gataagaacc 240
agcgttggag actgtataga cttgttttgc ggagccctct aagtgtcatg tttcgagtaa 300
aagtaggtta cttttgcttc ttgaagctgt cattgtttgt ctgccacgag ggctgcaatg 360
tggaatggt tgccacaaaa agaaagcaag cgatttttgt gtgctcaaag tcagttttgt 420

<210> 8529
 <211> 269
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: LIB104-048-Q1-E1-D9

 <400> 8529

gcctcttcgg taccgtgcat tgccctttct caccttgaga gttggtgcaa acttcgccgg 60
 tgcattaaaa ccccgatgata cgatatgctc tatcacacat aagcctcatt atatcttcct 120
 caaaccagcc accataccta cctatcatgg catttccata gccattccga gatataattgc 180
 catgcaactt ccatcatcat catatacatg acttgagcat tcattgttat attgctttgc 240
 atgatcgtaa gatagctagc atgatgttt 269

<210> 8530
 <211> 383
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: LIB104-048-Q1-E1-E1

 <400> 8530

cgccgaccaa ggattctatc aatgtatcat cagtatcaat cactacatga caccacacaa 60
 cagatatgct gctgtcagca gtcctctcta aatagacact gcaattatcg tataagtaca 120
 tcattgctgc tgtcagcagt gctctctaaa tagacactgc aattatcatg tacatcattg 180
 ctgctgcaat gaaccattaa gaattattta aaatctagcc taccatctgc gttgtcgtca 240
 acagaggggt gaggcggagt taaaaaatct gtatgagaaa ccgagggatt gtccgagtca 300
 gcgacatctt tggtatcttc agagctgtca gaagcagctg agatggcgctc acctgattct 360
 gaatgtgttc tgtccacata tgc 383

<210> 8531
 <211> 385
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: LIB104-048-Q1-E1-E11

<400> 8531

tctacgaatg aaacggatta catggaaccc tcggaggaac cccatgaacc aatttgggtg 60
aaggatttca tcaccgacct aggagtcata cccaatgcgt cggggccaat caaactcttc 120
tgtgacaaca ctggagctat tgcccttgcc aaggagccca ggtttcacaa gaagaccagg 180
cacatcaagc gtcgtttcaa ctccatccgt gaaaatgttc aagatggaga catagaaatt 240
tgcaaagtac atacggatct ggatgtcgca gatccgttga ctaaacctct ctcgtagagca 300
aaacatgata aacaccagaa ctctatgggt gttcgattca tcacaatgta actagattgg 360
tgactctagt gcaagtggga gactg 385

<210> 8532

<211> 386

<212> DNA

<213> Triticum aestivum

<223> unsure at all n locations

<223> Clone ID: LIB104-048-Q1-E1-E3

<400> 8532

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ttcaatcagg gaatcgtgcc ttccacagtc tggggattca anaaggaaat tgaacccgac 120
gcacaaccgg aagccaaggt tctacaccaa ggtgtttaag gaatgccact cctatgacca 180
agaggggaat tcctttgagc tttctctggt aacttccaag tgcattggag cttatgtgaa 240
aagcaagaag aaccagaacc agatatgttg gctgtgggag aaggtaagt gcacagaaga 300
caaaggcttt cagagattcc tggacaatgt gcagtacaaa tccactggaa tcttgcgtta 360
tgagcgcgtg tttggggagg gttatg 386

<210> 8533

<211> 160

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-048-Q1-E1-E4

<400> 8533

acggaactct gaagagaaca ctaacctttt tgattccgcc atggcaaagg gaaagcaaac 60

cgtaaagaag tgaacaagaa agaaaaggca aattaaattg caaagggttaa attggggaaa 120
 agaaaaccaa aagcaaattg caagttataa aatgccaagg 160

<210> 8534
 <211> 372
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-048-Q1-E1-E5

<400> 8534

cggggtcgac cgaggagagc tgagctgacc aactggtttg cgccatgtca taaccgctcg 60
 attgcggcag ctcatggcaa ctcatgacc tgcagcatag aatctccatg ggagacctgc 120
 cgtctggtgg cacacttcaa tcggcataca acagatgacc cgttcatcag actgtataca 180
 aaggccaacg atggctcata tatcgatcac aaggagatcc ccctgggtgtg gcatcactac 240
 gacgcggatt gaaacttcgg ttcatgccag gcgaatgagc tgctcaacca tctcgagagc 300
 gtgatcgcta acaaccgggt cgtcgtgaat acgtgccatt acatcgtggc ggttcaccc 360
 caggcatca gc 372

<210> 8535
 <211> 345
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-048-Q1-E1-E9

<400> 8535

gcccctcccc tccaattgca aggcgcccac atccggagtt ccgggccaac cgatctaacg 60
 ggtaaacctg gcccgaaaca ccaaacccaa ccgggggataa ccaccaaagc ggggtgtgga 120
 aaaatagaaa aaggaatttc tcgataagtt gatttcgcgg taatatttgt tctcccgct 180
 cggttcattt gctgtataac catcaaactc ttgatataa gagttttgtg ttttaacttc 240
 cagtgtgtgt gttcatatat gactaatata ttctcccca aatgatataa aaaaaaaaaa 300
 aaaaaaaaaa aaaaaaaaaa aaagaaaaaa aaaggataag aagg 345

<210> 8536
 <211> 377
 <212> DNA

<213> Triticum aestivum
 <223> unsure at all n locations
 <223> Clone ID: LIB104-048-Q1-E1-F1

<400> 8536

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attccgagtc cacggggtca agaaagagaa cgacaacatg cagatcgagc tcaggcatat   60
gaaaggcgag gatgtgaact ccctgcagcc caaggaactg atcgccattg aggaagctct  120
cacgaacggc cagaccaacc tcagggacaa gatgatggac cactggaaga tgcacaggag  180
gaatgagaag atgctggagg aggagcacia gctgctggct ctgaggatgc accagcagga  240
cgacctgagc agcggcatga gggagatgga gctcggttac catcanggtg nggatttcac  300
ttcccagatg ccgttcacct tccggctgca gcccagccac cccaacttgc angaagacaa  360
gtatgccacc gaatcct                                     377
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<210> 8537
 <211> 401
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-048-Q1-E1-F12

<400> 8537

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ttgatatttg tattagcagg tttgagtttt gcatgtagtc tactccattg tggagttcgt  120
ccgacgaaag ctttatgtga tcgcgcacaa gaggtgagat gccagaacgc cgtgtgacgc  180
ggcgagcacg gcgagatgcc gatgggtgctg cgttagaagc ggcaagacgt atcacaggct  240
ggagccgtga tggactgcat caaattgggt cgggtgaacc ggccgggtcgt tctgtttggt  300
ggactacctg ttcctgcgtg agttcgttta gtcctagccg agagtatcgt tgctagtact  360
tgatgcatgc atgtagttgg cctggtcaca agtggttacc g                                     401
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<210> 8538
 <211> 409
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-048-Q1-E1-F2

<400> 8538

acgggggtccc tcaatgaacc tgaggggaca gagtaagtgc tctcaatcat attttcaaca 60
catgacaaca ttttcttatt gtacacaatg gaatcatttg attcttttgc aaaaactgga 120
ttcttcaagg gaaagggcct taaaccgaac aacttatcac ggtcccgttg aaggattttt 180
ggcggggcct attctgcccg cggccagaca gggaccgca gcagcgggtt ttggccatga 240
gctgggtcca ctacgaggct tgcaacaacg cggagtacgg gacgaccgct aaggccgtga 300
tcaccaaatt ttgggtaagt tctcttctga atcacttgtc ttcagtttcg ttcatagttt 360
atcattgaat cactcaactc atgccttggt tgcttcgggt ttttgcattg 409

<210> 8539
<211> 272
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-048-Q1-E1-F3

<400> 8539
aaatactcct atgtttttct ggaaagaacc ctgtatggta aaaagtattt catttggttaa 60
ttcgttggtc gttatgagta atatataac tccttgggat taataaatca tgggaagata 120
aaagcacttg gcgtatacgt atttgacgtg ccaaactctg tgtatccagt gtgtatcggg 180
gtacgcattt gagacttcca aacgcgtagc acgtgtgaaa gtaattgcat ctatagccga 240
cttcacaaaa gaaataaaag aaaaaagaca aa 272

<210> 8540
<211> 378
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-048-Q1-E1-F9

<400> 8540
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cattaagcat ttcaaatttc tttttgacag taggtagagg tatttgaaaa cttccaatag 120
tgattgtcgg agatttttca ataacattaa taccattcac ctggaattgt ttcttcgaaa 180
agtgcaccgt atgctcatta ccattgatat gaaaagtgat cttgctttta ttgcaatcaa 240
taacagcccc tgcggtattc aagaagggtc taccaaggat aattgacatg ttgtcgtcct 300

cgggcatctc aagtataaca aaatcagtca aaatagtaac attagcaaca acaacgggca 360
catcctcaca gataccga 378

<210> 8541
<211> 397
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-048-Q1-E1-G11

<400> 8541

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tttggccttg gtttaggatg gggctttgga actgcttatg gttgtcaata tcgatcttca 120
agggtccagt ttcagggcat tgagtttcag aaaaagtctg aaggagatga agcaccaaag 180
cttgttgaaa agtctcgtcc ttatggctag tatagctgcg atcatacaat tggcacaggc 240
aatgttacca ttgccccctt gattgtagtc aattgtctac ctggaaagt gtttgaaagc 300
attttgatgt tttgatgaac ttggacgttt tcatggtaac ataatgagga taatccatgg 360
tacttttttc gtttcggaaa aacaaaagaa acacaaa 397

<210> 8542
<211> 386
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-048-Q1-E1-G12

<400> 8542

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cagggagtcc tgcttcacc agtctgggga ttccaagagg aaagtgaacc cgacgcacta 120
ccgggagcca aggttttaca ccaaggtggt taaggaatgc cactcctatg accaagatgg 180
gaattccttt gagctttctc tggttaacttc caagtgcatt ggagcttatg tgaagagcaa 240
gaagaaccag aaccagatat gttggctatg ggagaaggtc aagtgcacag aagacaaagg 300
ctttcagaga ttcttgaca atgtgcagta caaatccact ggaatcctgc gttatgagcg 360
cgtgtttggg gagggttatg tcagca 386

<210> 8543
 <211> 419
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-048-Q1-E1-G3

<400> 8543

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 cataatgctg gaacaaacaa agctgctcat agcacaacat cgctcaatac aaaaaggctt 120
 gatgatgata cagagaatct tgctcatgag cgtgtgccgt cagacctgaa gaagagcatt 180
 atgcaggcta taacggacaa taggctcaca caggcacagc ttgcacagct gatcaatgag 240
 aagccacaag tcatccagga gtacgagtca cgcaatgcta tcccaaacca acagatcatc 300
 ggcaagctgg aaagggctct tggcacaag ctgcgaggca agatgtgaag ccgctgcat 360
 ctgacaggag tcgaggcttt caacagagct tggctgggca agtttaccgc taaataaag 419

<210> 8544
 <211> 310
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-048-Q1-E1-G4

<400> 8544

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 cgatgggaga tgtgccacgc tcttaaatgc cagtcttctg ctctaattctt gccaaattac 180
 ttgttgcaat ttggaacttg gccaaaaaaaa aaaaaaaaaa ataaaaaaaa acaacaaaac 240
 aataaaaaaaaa aaaataagaa aaacaacact tgatgaaaaa aatttcatta aaaaaagggc 300
 cggttccaaa 310

<210> 8545
 <211> 414
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-048-Q1-E1-G6

<400> 8545

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 ttgacgcaga tctactgaag gatgatgatg atgctcagct actacagcaa gcactcgcta 120
 tgtcaatgga tgaggggtgct tcaggatctg cagctgtggc tgatgctgct atggcagaag 180
 ctgctgcaga tgaccaggat ttggcattgg ctcttcaaat gtctgtccag gacgcagagg 240
 tggctgggtca atctgatatg agcaaagtgt ttgaggacag gtcatttgtg acatccatcc 300
 ttaattcgct tcctggtgtt gaccccaatg acccatctgt gaaagatcta ctggcttctt 360
 tgcattggcca aggagagcag gaggagaaga aagataagga ggacaagcca taca 414

<210> 8546
 <211> 413
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-048-Q1-E1-G8

<400> 8546

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 ctcatataca tcaggcgagc cattcactat gattattgca acataaccgg tggtgcggaa 120
 acatagtcag tggtgcaaaa acatagctgc ttcaaaaaca tccctcgtgc ttcaacaaga 180
 acggcagagc tgcaagacaa ggtaaccgct atggcgggat gtttctgaaa catggcctat 240
 gttgcagaag tccacgagac catgagaaat aaattccgca acacaatctt tggtgcaaat 300
 atttccgtta cagagctct gttgcaaaga tccgcaacac aatctttgtt gcaaatgttt 360
 ccgcaacaca agctctgttg caaatgcttc tgcaacacta cctttgttga aaa 413

<210> 8547
 <211> 364
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-048-Q1-E1-H10

<400> 8547

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 acactgttgt ccattggcac aaggagcaaa acctgggttag ccaacggtga agaaatcaga 120
 tgatcctttt atagagcatg atcaaaagtt cagagctcat gtgtgatccc cacctgacca 180

taggtcaggt tatagagctt tgttgtttgc tggacattgt agtgtgaaca ttgtgtgtgt 240
 cttgtgtgac atgtcaaagc tgaagcggag gtgtgaactc ggtgtggttag aagaccactc 300
 ggtattcaga tactgttctt cacattctgt ttgtattgtg gtactggtaa tgatgaataa 360
 acag 364

<210> 8548
 <211> 391
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-048-Q1-E1-H2
 <400> 8548

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 tcttctgtga caaactgga gctattgccc tcgcaaagga gcccaggttt cacaagaaga 180
 ccaggcacat caagcgtcgt ttcaactcca tccgtgaaaa tgttcaagat ggagacatag 240
 agatttgcaa agtacacacg gatctgaatg tcgcagatcc gctgactaaa cctctctcgc 300
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 attagtgact ctagtgcaag tgggagactg t 391

<210> 8549
 <211> 226
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-048-Q1-E1-H3
 <400> 8549

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 aggggacaat ctttattttt ggttacatgc tgattacaga cagtgtactg gttctgtcga 120
 ccgaactatg gagcatgtct ttgtcatggt caattgattt ttcttcttca ttctgctgta 180
 ttactgacct tgatattcaa cctgaagtgg gtgggtttat tcctcc 226

<210> 8550
 <211> 379

<212> DNA
 <213> *Triticum aestivum*

 <223> Clone ID: LIB104-048-Q1-E1-H4

 <400> 8550

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 ccattcgatt tcaagacgga tgaggagcag gtcacaaag ggctggacac gacagtgtc 120
 accatgaaga aaggagatgt cgcgtcagct agaataccac ctgaacatgc gttcgggtcc 180
 actgagacga agcttgatat tgctatggtt cctcccaact ccaccgtctt ttatgaagtg 240
 gacctcgttt ccttcgagaa ggagaaagaa tcttgggact tgaagagtaa tgctgagaac 300
 atcgaagcag ctgctaaaaa gaaagatgaa ggaaatgcgt ggtttaagat gggcaagtac 360
 gccaaaggctt ccaagagat 379

<210> 8551
 <211> 266
 <212> DNA
 <213> *Triticum aestivum*

<223> Clone ID: LIB104-048-Q1-E1-H7

<400> 8551

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 tcaaggacag gatccacagc gacggcatga tggacagcat ccacgacgag atcaacgaca 120
 acagccacag caacggcaag aaggacggcg aggaccacga ggacaacgac agccacagca 180
 acaacgacag caaccacgac aacgaccaca ccgactccga cccgcactcc agcagcatca 240
 acgecagctc catcaacagc acctgc 266

<210> 8552
 <211> 402
 <212> DNA
 <213> *Triticum aestivum*

<223> Clone ID: LIB104-048-Q1-E1-H8

<400> 8552

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 ccaccctca aataaaacta agggggtgct tggatatggt ttagtcccat gactaaaagt 120

agtgggacta aaacatgcta gcctcaccca tgcttggatc cgaataactaa aaaggctaaa 180
 atcaagttaa tgagcattta ttatcctcca aacctccaa tccataactc gcctgtgtta 240
 aaggagagga gttaaagac tagagagagg actaatccac attttactag gggtagccct 300
 gactaaattt ttttagtctc aagactagtt ttagccccctc ttttagtcagg ggtgcttgga 360
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<210> 8553
 <211> 426
 <212> DNA
 <213> Triticum aestivum

<223> unsure at all n locations
 <223> Clone ID: LIB104-049-Q1-E1-A1

<400> 8553
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 ctacttcgcg gcaggatagc ccggcccgtc cagagctcaa ttaaactc cggcgaaggc 120
 taggacaggc cgcataccgc ggctcaaccg ctctccggca cacaacatt tcttacattt 180
 gctttgcagg ttcacctttg caccgaccag gactggcgat atggaagcaa ctogaatgcy 240
 caagggaatc cttagatatt ccccgagtg accatccgaa tatactctgg atccacacac 300
 agcttcttcc ccctgatct cagcagggtc cacagtcata tccctttttt tatctcatta 360
 cctgtcctca tacgcatcaa cgtactattc aaatacaaca tatggattta tatgacgctt 420
 atctgc 426

<210> 8554
 <211> 358
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-049-Q1-E1-A10

<400> 8554
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 gcatttcgat agccattccg agatatattg ccatgcaact ttccaccatt ccgtttatca 120
 tcatgacaca catcattatt gtcataattg ccttgcatga tcatgtagtt gatatcgtat 180

ttgtggcaaa gccaccatgc ataaattttc atacatgtca ttcttgattc attgcccac 240
 ccggtgcacc gccggaggca ttcacataga gtcataatattt attctagttt tgagttgtaa 300
 ttcatgagtt gtaaataat agaatgtga tgatcatcat tattagagca ttttcct 358

<210> 8555
 <211> 410
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-049-Q1-E1-A11
 <400> 8555

gacgggaagg tcaatactga tatgcttggc cccacgcgta gtagtcttct tcaccctgca 60
 aaaaaataaa gcacatgaaa aaggtattaa aaatgaacaa aaatatgttt gccttggtag 120
 aaatcttaaa aaaatgaaaa acaagtggaa aggctggtag ttgccatgta aggggaacgt 180
 gagttgccat gtgtcataat tagcagttgc catccagcag cagttgccat gttagccaac 240
 ttgaagaatg ataaaaatgt ctaatctgtc atgaatacaa tttcaaacct aggtgtagga 300
 tgagctcaca agccaacggt aaagatggca gttgccatta ggtacattaa agttaccatt 360
 tggcctagat tccagttgcc atgtaaaaaa caataggagt tgccatacac 410

<210> 8556
 <211> 410
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-049-Q1-E1-A12
 <400> 8556

gacgggaaga gacagatttg cctaggggtt gtggcagtgg ctaagacatc tgaactctgt 60
 ggcgccggat agaaagaatc ggtggggccg agtttgactt taggtctagg tcatatgtgt 120
 ggaagtagtt gaggggtttg gagcatatca cgaagcactg tggagcaaga aactcattaa 180
 gcaacacctc atccctcctt gatagtactg gcttttccta tagactcaat gtgatcttgg 240
 atcactaaaa tgtaaaatga agagtcttga gcttgaagct tgagccaatc ccttgtcctt 300
 agcatcttga aggagttccc acatccttta gtccatgcca ctccattgtt ggacttgtct 360
 aaaatgtact aggtaaaagt gttagtccaa caagagatat gttgacatta 410

<210> 8557
 <211> 377
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-049-Q1-E1-A3

<400> 8557

cgcgtaaaat ttgaactgta gctgcctcat agtttgctct atattttttt cagaaatcat 60
 ttctaggtac ataagtatct atttaacaga gaaacatcaa aagttttcca agatttaacc 120
 actagctagg aacgggtcaag cccgcccttt tgaccgcatt ttgaaaaggg cataaaaaat 180
 tcaaaaaaat caaaaaattg gaaaaccttc gcattgtgtc attatatgtg accaagtttc 240
 cacgaaaaat aataaatttg ttatacggaa attgttttta aaaagtgttc tcaaaaatga 300
 gttgtcatgc gtgaggattc atggctttca agccaaatga tcaatcttat ggccacattc 360
 atggcatagt ttgttca 377

<210> 8558
 <211> 378
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-049-Q1-E1-A5

<400> 8558

cggaaggccg ggcacccgc cggccttcag gaacgccgac ggcgggtacg gcaccatcaa 60
 aaccggctac ggctacaagt acaccaggtt ggcgacaccc aaacgggtcca agaagaagag 120
 ctggttctcc tgcaccagct gccgattctg atgccgtagc tgcttgccgt cgttggtgag 180
 agagatccga tacttcgccg cgccacgacc agaagcacgc actccgggag gcgacggtgg 240
 aacttttggc gatcttggcg tttttgtccc tgctcggtcg ccgcacttgg cgtgcagagc 300
 atcatcgaca actgatggct cccgttcata tgtacgaata atttgtggcg aataaaaggg 360
 gggaagtgac tacaacaa 378

<210> 8559
 <211> 401
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-049-Q1-E1-A6

<400> 8559

gggtcgacgg aaattgcaaa cctaacgaag ctcataatca ggtggttgaa gtgaatgtca 60
aagtcgaaaag tgcaggcaca aataatgtgc acaacaatgc tttctatgct gaagaaaaaa 120
tactgaaatc cgagttgcaa gcaatgagag attgtgaccc ttcattctgcg cggcattgga 180
ttgttaggaa cacaagggct gtaaatacgta ccggacaacc aactggtttc agactcgtgc 240
ctggttcaaa ctgtttgcc tttgctctgc ccgaggcaaa gtttcttcga agagcagggt 300
tcctaaagca caatctttgg gtgacacccat acaagagcga tgagaagttt cctggagggg 360
agttcccaaa ccagaatcca cgtcttcacg agggtttggc t 401

<210> 8560

<211> 343

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-049-Q1-E1-A7

<400> 8560

ttgaaaatct gattggcaag attctgaagt gtctgatgcc cgggtgggcac attttcatca 60
gggagtcctg cttccaccag tctggggatt ccatgaggaa agtgaaccgg actcactacc 120
gggagccatg gttttacacc aaggtgttta cggaatgcca ctcttatgat caggatggga 180
attcctttga gctttctctg gtaacttcca attgcattgc atcttatgtg tagagctata 240
tgaacttgcc cagatatgtt ggctatggca caaggtaag tgctacgaag acaaaggctt 300
tcagatattc ctgtacaatg tgcattacaa atctcctgga atc 343

<210> 8561

<211> 350

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-049-Q1-E1-A8

<400> 8561

gagcacatga tcgccagctg catcagggtg gcatgtttga catgatcatc gacaacatca 60
gtgggggtcgt ggcagccata agcacaggaa tgaccatgtt cacattaagg ccgatgagca 120

cagcatagaa cgatggtgag cactatatgg tcggcgagca catggatggc atgttgagaga 180
 ttatcttcgt taagatcagc ggccattgcc actgtgaccg catgaacgac tgtgaccaca 240
 aggatattaa tgtctataac accaataacg tcaacattca ggcgagggcc atttgagcga 300
 ttacggccac ggcatcatca gcatctacag cgacatcgac tgagccatct 350

<210> 8562

<211> 372

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-049-Q1-E1-A9

<400> 8562

gtcattggtg tcgggggtga aaatgaagtt catcatgtga gagaaagtcg ggtgagcgtt 60
 gactaggcca agtgacatga cagtgtattc ttatgtaaca tatcttgtcc tgaaatgccg 120
 tcttggaat atcttgctca cggattcgaa tctgatgata acccatacgg tgatcaagct 180
 tggngaatac ttgggcacct ttgagttgtt caaacagctc attgatgttg ggaagtgggt 240
 atttgctctt tatattcttc ttgttcattg gacggtagtc aacacaaagc cggtcattc 300
 catcttctt cttcaciaaac agaatttcac aaccccatgg agaagagcta aggcggatga 360
 aattcattct tt 372

<210> 8563

<211> 406

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-049-Q1-E1-B11

<400> 8563

ccgggccgac ggcaaggaga agtacgcctt caacggcgtg tccacacccg accccgagac 60
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 caccgacacg ccgccaagg agggcacgcc catcaaggtc gccccagcg tcatcaccac 180
 cgagcaccgc acctacattg agattgtctt cgagaacccc gagaagagca tcgacacctt 240
 ccacctcgac ggctacgcct tcttcgccgc cggcatggga ccggggctat ggtcggtgga 300
 gagcaggaag acatacaacc tcctggacac ggtgagccgg cacaccatcc aggtgtaccc 360

gaggtcgtgg acggcgggtga tgctgacgtt cgacaacgcc gggatg

406

<210> 8564

<211> 382

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-049-Q1-E1-B2

<400> 8564

gtccatagtt gattttttaca atgctctttt gcttcactaa tatttgtag agcgtgggca 60

tatcttttgt aaaaagaatt aaactatctt gcttcactta tatctattca gagagatgac 120

aggatttggg cattcacatg gttagtcata aaatcctaca taaaacttgt aaatcgctga 180

atatgatatg tttgattccc tgcaacagtt ttgcgatata aagatgggtga tattagagtc 240

gtgctactgg ttagttgtgc gttgtagaaa tacttgtgtt gaagtttgtg attcccgtag 300

catgcacgta cgggtgaaccg ttatgtaacg aatttggagc atgaggtatt tgttgatttt 360

cttccttagg agtggcgggtt gg 382

<210> 8565

<211> 389

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-049-Q1-E1-B3

<400> 8565

cccctgaaag agagagatca ccgggttata tctggcactt ggaaggggtgt gttttattaa 60

gtatccagtt ctagttgtca taaggtaag gtacaactcc gggtcactct ttaccgagg 120

gacacgacta ttcgaataga taaacttccc tgcaggggtg caccacataa cccaacacgg 180

tcgatcccat ttggccggac acacttttct gagtcatgcc cggcctcgta agatcaacgc 240

gtcgcagccc caccaaattt ccgccgaagc agaaaaagca tcgtctcgtc tcgtctcgtc 300

gaggaatcaa cagccatggg cggcggcaac gcgcagaagt ccaagatggc gagggagagg 360

aacctcgaga agctgaaggg cggcaaggg 389

<210> 8566

<211> 400

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-049-Q1-E1-B4

<400> 8566

ccgggtcgac gggatgcagg aattcctcgt cgaattccgc gggcccgaag agagtctcta 60
ccaaggaggt gtatggaagg ttcgagtaga actgcccgat gcgtatcctt acaggtctcc 120
gtcgattggt ttcgttaata agatataatca cccgaatgtc gatgaactgt ctggttccgt 180
ctgcttggat gtcattaacc agacatggag cccaatgttt gatcttgtca atgtgtttga 240
agtcttcctt ccgcaacttt tggtatatcc aaatccctct gatccattga atggagaagc 300
tgctgcactc ttgatgcgtg atcgccctgc ttatgagcaa aaagtgaaag aattctgcga 360
gaaatatgcc aagccagagg atgcgggtat aaccccagaa 400

<210> 8567

<211> 372

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-049-Q1-E1-B5

<400> 8567

cggaatcca caacgtgtcc acggagccgg cggcgcaaca ggaggtggag ctgccggagg 60
gcaccacccc ggcggtggcc atgctgacgg tgagcacgct gccgatgctg gcggagctgc 120
ataagatgga gcatgagatc agctcgccca ccccgcgcaa gggctacatc aaggctttct 180
gatccgatcg agatgaccga tgcacgcacg ggcgcatgca ttcaggagat gaatcaatcg 240
ctaatgattg gcaaaccgac cgccagcaga gatacgttta tatagttctt aatttcagtc 300
gttcgtttgt aatggtctgt actagtagca cagtcgtgtg tggtgttgtc atccatgggt 360
ctgatatacc gg 372

<210> 8568

<211> 367

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-049-Q1-E1-B6

<400> 8568

ccatgagtga tttttacaat gctcttttgc ttcactaata tttgttacag cgtgggcata 60
tcttttggtta aaagaattaa actatcttgc ttcacttata tctattcaga gagatgacag 120
gatttgggtca ttcacatggt tagtcataaa atcctacata aaacttgtaa atcgctgaat 180
atgatatggt tgattccctg caacagtttt gcgatataaa gatgggtgata ttaaagtcgt 240
gccaatgggt agatgtgctg tgtagaaata attgtgttga agtatgtgat tcccgtagca 300
tgcacgtttg gtgaaccgtt atgtagtgaa gttggagcat taaggagttg ttgattttct 360
tccttat 367

<210> 8569
<211> 378
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-049-Q1-E1-B7

<400> 8569

cggaattaga agttgtaaat atgcattggt gtatcgcgac ctgaatgaat gaaataaacg 60
aaataacgct cttgtacaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 120
aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 180
aaaaaaaaaa aaggggcccc caaaaagatt aaaactaaat tacccttaaa tgcaaattaa 240
aaacccttca aaagggttaac caaaattaaa ttaaaggggc ttctttttaa aaattcgtaa 300
cgggaaaaac cctgggttaa ccaaattaaa ccccttgaa aaaaaacccc ctttcccaaa 360
gtgggttaaa accaaaaa 378

<210> 8570
<211> 397
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-049-Q1-E1-B8

<400> 8570

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gcttagtaga attaaaactg agtttgtgag gtgtgggttc agtactacta gccacaagga 120
ggaggttagc cttgatgggc aggtgatacc tcagaaggac aattttcgat attaggggtc 180

aatgctgcag gatgatggtg atatcgatga agatgtgagc catcgaatca aagctggatg 240
gaagaaatgc cgccaagctt cctctgtgac aatagtacca caaaagctaa cattgcaggt 300
tctataggac agcgattcga cctgcgatgt tgtatgaagc agaatgttgc caaataaaaag 360
gcaacatgtc caacagttag gtgtagcaca gatgcgc 397

<210> 8571

<211> 375

<212> DNA

<213> Triticum aestivum

<223> unsure at all n locations

<223> Clone ID: LIB104-049-Q1-E1-B9

<400> 8571

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aagcatcaca ttaactatctt cagctacggg cttaatcaat atatatttac ctgaccggac 120
tcggttcggg caatggagca gtctgcacgg tcaccatctt gtacctccat tgtgtcacct 180
gagcactcgg caggggtctcc ttcttgtacc tccactgtgt caccgaaccc atcatgaaaa 240
tagtcctctt cttgtaccag cattattggc ccgaanccat tattagcata gccctcttct 300
tcagccagtc cttccagctg actatcactg tcgatgacaa atgacgcaac ttcatcactt 360
ccatttgcca ttatg 375

<210> 8572

<211> 399

<212> DNA

<213> Triticum aestivum

<223> unsure at all n locations

<223> Clone ID: LIB104-049-Q1-E1-C1

<400> 8572

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ctgcgttttc gttgtggtga agatggcgat atcgatggag cgcaggaaga tgaagcccgt 120
ccttgccttc gtgctgctgc tgtcgtgcca tcttcttctt ccgctggtct cctccgtgcc 180
tgtgtcgagt aagtgtttga cctccaaccc catgcacgca tgcattggacc ttactttaat 240
acagttcatc ttctttcttg ggatgtgtat gtgcatgcat gcatcttaat tttgagcctt 300

gctctcggat gtangaagcg tggccttggg aaatcatcta gcctcagctt ctagtctaac 360
tctggaggcg ggcctgttc aggtcaatct ctactcta 399

<210> 8573
<211> 411
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-049-Q1-E1-C11

<400> 8573

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tgatgaaatg acaggataat tatggggtag tttttgactg cgttgacatt tacaagcagc 120
ccgcattcga tcacctctc ctgaagaacc acatactaca ggtcaccatt ctatactttc 180
tatctttact gtcaaaaaat tgtaggaatt tttgttgctt tttgaaacat ggtacgaatt 240
cttgatgtaa tcagtttttt tagtcatcga tgtcagattt acagatctat ccgcccttgt 300
attagactct gacgtgtcct tgtagtattc ccgagcactg tggttgatac ggcacatacc 360
atagcaaatg gctctcga aaacaacggc actatagttc tatttccac t 411

<210> 8574
<211> 425
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-049-Q1-E1-C12

<400> 8574

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gtgacggctt catcgacttc agcgagttca tctccttctg caacgccaac cccgggctca 120
tgaaggacgt cgccaaggtc ttctgaatca gttcatttca cctcagccgt ccgatccagg 180
agccgatcca tctacgtacg gtttcgcata tcaatttcat gcaactacct actccggtcc 240
cgatccagcc tcagcttcac ctgaggccgg ccctaatttt gtttgatcat ttttttttgc 300
taccagtagt aactagtgat gatcactgtt ccatcattta tttattttat atcatcacia 360
gtttcttttc tttctctacc tttttgtcga tcgtcggctc cagctcgatc caacgatcca 420
tgctg 425

<210> 8575
 <211> 395
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-049-Q1-E1-C3

<400> 8575

cggggctttg agagggtttg agaggggttt tgaggggttt tgagagggtt tgactgatta 60
 ggggtgagca taactaattc aaaaaaatc aaaaaatat aaaacttggt cacatagtct 120
 tattatgtcg tatagtaacg agaaaaaaaa tataaatatg gtttacatac atttttacga 180
 aaaatccttc aaaaaattgt tattcctcaa acaatgtagt atggagttga agggagagag 240
 tagtgggcac ccgagagtag gtggagtttt aaaaatgaaa agtgtgaaaa ctcaccaaaa 300
 acttcatttt ggattgacta agaaagatct gaacttactt ttctcatttt catgttttaa 360
 acttgtttta tatataattt tctattaaac cttgt 395

<210> 8576
 <211> 397
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-049-Q1-E1-C4

<400> 8576

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 atttgctaga atatgctatg tgcttcactt atatcttttg agcttgatag tttttgctct 120
 agtgcttcac ttatatcttt tagagcacgg tggtgactta tttttgtaga aattgctagt 180
 ctctcatgct tcaacttatat atttttgaga gtctttttaga acagcatggg atttgctttg 240
 gttataaaat tggccctaga atggtaggca tccaagttgg gtataataaa aactatcata 300
 ggaagtgaat tggatgctct ggtcaatttg atacttaata attgttttga gatatggagg 360
 tagtgatttt aaagtcatgc tagttgggtg attatga 397

<210> 8577
 <211> 396
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-049-Q1-E1-C5

<400> 8577

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accatgtcag taagaccctg ttgctttttt tgatagcatt ccagtaacca ccgatggacg 120
agaactttgc ctattggtcc gtctcggtca atgagcagga aaatggttct cttcgtccct 180
cgcccttggg accaatgggt gttgccaaca taatcgatag tctatcctct ggcattgcctt 240
gcttacatga tcatgcaaga cgtcatcccc cttccgactt ttaaccaca tgggtgggcc 300
ataaccaca atttcacagg atcgaaacct gactctcctg tacaccctgt tgtcaaagtt 360
attcccacgt ttgactttga cgtaattcac gggcca 396

<210> 8578

<211> 389

<212> DNA

<213> Triticum aestivum

<223> unsure at all n locations

<223> Clone ID: LIB104-049-Q1-E1-D1

<400> 8578

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aaggcaatgc cgagtcttat ttttacaaaa gtccaggaag acaattgtac ttcgtcaaca 120
tgtgccattt gcttgaaga ctacagtgtt ggtgaaaaga taagggtgct gccttgctgt 180
cacaagttcc atgctgcttg cgtggacctg tggctcacat catggaggac attctgcctt 240
gtatgcaagc gagatgcaaa tgctggaatg tcaaatttcc ctccatcaga gtctaccctt 300
ttgctttctt ctgctattcc cttgccagct gaatcgacag ctttgtcttc ttttcgttca 360
ttggtancag catctcctcc aaggacaat 396

<210> 8579

<211> 356

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-049-Q1-E1-D10

<400> 8579

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ccaggaagga aggaatggaa aggaaggatg ttatgacgaa aaatgtttca atctacaaag 120
ctcaagcatc tgctcttgaa gctcatgcag cccccaattg caagggtttg gttgttgcca 180
accagcaaa caccaatgct ctcatcctga aagagtttgc tccatctatc cctgagaaga 240
acatcagttg tttgacccgc ctagaccaca acagggcact cggtcagatt tctgagaaac 300
ttggtgtcca agtttctgac gttaaaaatg ctattatctg gggtaaacac tcctcc 356

<210> 8580

<211> 425

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-049-Q1-E1-D12

<400> 8580

cccgggtcga cggggacgat gacttctgtc agcacgacga cgtgatgacg gttttggtga 60
tgtgaacgcc atcgccaaaa atgagccatg ggtacatgct aaacacgtca cataatgtgt 120
cttcataact gatccgatca atcacagccg tgttgtcgtg aggagaagca aaaggagcat 180
tgccgaaatg gatggagtcg ccaacgagga agaccacgac cagtacggtg atccgatgag 240
ggaagatgat gctgatgacg atgaaacata cgtcaaaaga agaacaaaga ttacattacc 300
tacgaaagat cgtaatccct ggagaaggaa aactcacgac catggggtca attattcgac 360
aatgaacaaa agagggaaga atattagtct aaagcgtcat cgtcgcccaa gctgacaaac 420
taatc 425

<210> 8581

<211> 311

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-049-Q1-E1-D2

<400> 8581

gcagagtaaa gtcagggggc ggcccgaat agaaaaacc cggggttgcc ccaatcaatt 60
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ggctggcctt tgaaaaaaaaa ttaacgggtg agaagggcgg tttgccgaaa attcgggtgg 180
aaaaaacaag acaaaacaaa tgtgtgtccg agctggcaaa agtgtgtctc gtacgcgtgt 240

ggtgcgcttg aaggattgca aagagcgaga gtgttgtctc aggctgtgcg tgcacacgcg 300
tgtggagaac a 311

<210> 8582
<211> 373
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-049-Q1-E1-D4

<400> 8582

cggcagtacc acaaagagct accagcgcca gacgtggggc cgcgtgctga acgtgctccg 60
cgacgacggc gggatcacgg tgaaggggca cgtgcagaag ccggtgctca aggaacgggt 120
caagcagttc aacgcggcca tacacgagat ccagcggacg cagggcgcggt ggggtggtag 180
cgacgagcag ctgcagtcgg agctccgggt atccatcacc gccgtcgtgg tgccggcgta 240
ccggtccatc ctcgccgct tcgctcagca cttcaccgcg gggaggcaga cggagaagta 300
catcaagttg agcgcatacg acctcgaggg catcatcgag gagctcttcg agggcagcgc 360
cggtccaag tca 373

<210> 8583
<211> 315
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-049-Q1-E1-E11

<400> 8583

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ttggaagact ggcgtcaatc tcaacagacc cttatgcgtc cacattattt gcttcacaaa 180
cagatagcat ctctctgctt cgtctctgga gtcacaaagc tcgatgacag ctagatacgg 240
atgatttaca ggtttggagc caaaatataa ttggctagtc tttttgaaca catgatgtaa 300
cacaaaagtt attat 315

<210> 8584
<211> 409

<212> DNA
 <213> *Triticum aestivum*
 <223> Clone ID: LIB104-049-Q1-E1-E3
 <400> 8584
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 aatctatgga tgtgaatttt gttggttaga atagtttttg aaacaacact tatagaggga 120
 attttaatcc taggccttat cctagtaatc cttctaataa ttatggaaat tcctacaata 180
 actcttatgg aaattttaat aagatgccct ctgaatttga gagtagtggt aaagagttta 240
 tgaattcaca aaagaatttt aatgctttgc ttgaagagaa attgcttaaa gttgatgatt 300
 tgtctaggaa cgttgataga atttctcttg aaattgattc tttaaaactt aaatctattc 360
 ctccctaagca tgatatcaat gagtctctca aagccatgag aatttccat 409

<210> 8585
 <211> 409
 <212> DNA
 <213> *Triticum aestivum*
 <223> Clone ID: LIB104-049-Q1-E1-E4
 <400> 8585
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 gaagcggaca tccgtgtccg cctattcgat ccaaacggac gaaaagcga caaatcgct 300
 gtccatttga gtcgatccgt tggagttgct ctaagggcct attcggtttc tctcggctcc 360
 tgcgactcaa ctcccgaagc ggagcaagct acttcagctt ttttatgga 409

<210> 8586
 <211> 368
 <212> DNA
 <213> *Triticum aestivum*
 <223> Clone ID: LIB104-049-Q1-E1-F1
 <400> 8586

tcgagggggg gaggcgcctt agcgggggatg gaagcttggg cgagattatg tgcggaaaaa 60
gatggagaag cgaatatgtg ctgcgggaag tggataggtg atgatgacta cagcatgccg 120
cttgacttac gagacacata ccaacaacgt agtgtcatat cgatgctaga caacttgctt 180
gagtgatcac agtactggta ctccctacag tacctactac agtactatgc cctagcttgc 240
tagagtagag tagtagagta ggactctgct ctactactag caccggagga gtagtatatt 300
ctaatactaaa atagttacaa acttcaatgc ccgatcgtgg aacgactacg aaccatgctc 360
aaagaccg 368

<210> 8587
<211> 423
<212> DNA
<213> Triticum aestivum
<223> Clone ID: LIB104-049-Q1-E1-F12
<400> 8587

ccgggtcgac gggaggcagg atggatctgc gcacggaagc ttccgatctg accggctggc 60
gtctcagatc tgctgctggg ctgatgctaa acggcggatc tagatgttcc cggcggcttc 120
ggtatgttgc agcggcgggc ccggaggggc tctctccggc gagtacgtgg gatcccgctc 180
gctcctccac ctctgctgac gacggccgac ggctctttgt gttgataatt attcgatgct 240
atgtcgataa ttattagatc taagagatcg gaggtgacgt aaggtaagaa gatgtagcaa 300
gcgagggtgct tgtggagagg tcggaggaga gtgaaaaaaaa agagatgtga acatctagag 360
gcctttgcc a tgttgggtgc gctcgcatgg caggccgcca ccataataaa gatgtttttt 420
tgt 423

<210> 8588
<211> 381
<212> DNA
<213> Triticum aestivum
<223> Clone ID: LIB104-049-Q1-E1-F3
<400> 8588

cctaaagtga gtaatatgac acatacaatt cgtccagttg cttctcgtgg gttttcataa 60
ccctgctgcg caaaaatggg atatgcattt gagataaatg tccgagttag tacgagagtc 120

ggtgatcgat acagaggctg atcgagttag ctgttccttt acccaagaaa aagtatttcg 180
 attttccatg tccaatcgca gatcccagaa tttctacaag aaattagata ggtagctaag 240
 ctaatctagt tccctataca gcaatcgggt gtcattctac tgcaacagtt gtactgcaat 300
 gatgaatacc ttaaagtagg tataaataga aagaattttg gcaaaatgga aaaggggttt 360
 ctttcgaaaa gaagatgctt g 381

<210> 8589
 <211> 382
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-049-Q1-E1-F4
 <400> 8589

gtcgacgggc cggccttggc ggaggagcgg gagcagcttg ctgaggagcg gaaggccttc 60
 ctccctcgaga aagctgaggc tgaagagcag cagcggctca ccggtgagaa gctgtacgcg 120
 cgagaaggcg agctgactca gcggaagtg aacctcgaca gccacgaaga ggagcttgcc 180
 gcgcgcgaac gggcacttgg cgggacgctc caagaggcaa aggatgcggc tgcggctgcc 240
 gaggccgcca agaaagaatt ggaggcaaag gtggcgcatc tagaagctaa tctgaaggtt 300
 ggtggcgaag agcttgccgc gctcaagcta gagcgcgaga aggacgccct tgcccatggt 360
 gagctgcagg gccgactcgc cg 382

<210> 8590
 <211> 399
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-049-Q1-E1-F7
 <400> 8590

cgggtcgacg ggatatccga aagagaagga agtgcagaat agatgtgtga atctgaacat 60
 aaaagaagag ttagtatgta gttcgagcac atcaaataca acaggtttct caagctctac 120
 atttagtgct ttacgaaaga ttgacaagga caagatggcc atggcgttgg ggtccctgca 180
 gacaagtaat ccaactatct caagtttcca gtgcacacag tccttgagtc attcatctga 240
 attatcatgc ccttctcgaa tatcaacagg atctagccta ccttccaaaa ctactagga 300

actgtttggc attgagactg aatactgtgt ggccaaggct tcatgtgcc aggttagtca 360
actggggaaa ccttcttcaa gtcaatccaa tgaagtctc 399

<210> 8591
<211> 430
<212> DNA
<213> Triticum aestivum

<223> unsure at all n locations
<223> Clone ID: LIB104-049-Q1-E1-G1

<400> 8591

acgcctgtcg gtacggctcc taaattcnca ggtecgacgat gtaaggcaca cgtaccggcg 60
ggggttccga gctgcttggc ggcgtagtag tacggtgggt tgtaaggctc cggccacgac 120
gccgtctgta ctgtgtgcg gcccgctctgg tgggtgtccgc gatggtcgtg ccgaccgcct 180
caaccgccat gacctccaag cccaacgcc acaacctaac caacgaagaa caacccttc 240
ttggacttcc cctcctttgg cggcctcgct ttgacgcgag aatttttcgc gtcgtcgagc 300
tgatcttccc gggcaagcgt gatgctcaga tctccggca cctccgtcgg ctccatctcc 360
gacacgttct ccgacggttc catgcgtcgg cgacggaagg aaggcgagag tgaaagaaaa 420
gagcgggaat 430

<210> 8592
<211> 361
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-049-Q1-E1-G11

<400> 8592

ccgggtcgac ggggaatctg aggcagagct gtgaggaaag atgatcttat cttgccacgg 60
cggatattctt gcctctttga cgtgcagttc tagcgcagca gaaggtttgg acagatacat 120
ggttctgttt ctgctccggc agccaaagca aaaccacaga tacggtcctt gtacatctct 180
aataatttga cctgaaataa ttacgatac tgcattctga gtttctccac atattgtgcg 240
agtaatgaca tttgtatact taaataagtg atggcatttc atccgtcaaa aaaaaacaaa 300
aagataaaaa cataaataaa catacaaaaa aaatcaaaac tcttccaaaa tgaaagataa 360

<210> 8593
 <211> 420
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-049-Q1-E1-G12

<400> 8593

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 gttgaggtaa gcacgtgcac actgagaaaa cagctcgtgg acttcgtcga aggcaccgag 120
 ggtggtctca agagaacacc acgaactgtc gtttaaagca gccaacgct tcgcggcatt 180
 ggtgtgtgag acgttgatac gtctccaacg tatctacttt tccaaacact tttgcccttg 240
 ttttggactc taacttgcac gatttgaatg aaactaacc ggactgacgc tgtttttagc 300
 agaactgcca tgatgttggt ttatgtgtag aaaagaaaag ttctcggaat gtccctggaaa 360
 tccacggagg cacttttttg aattaataag aatttttggc gaaagaatca agaccagggg 420

<210> 8594
 <211> 304
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-049-Q1-E1-G8

<400> 8594

attccagagg tcgacggggt ctccgcagaa cactcctttg aacacggaca gttacacttg 60
 agcaaactcat ctgcaacata ccatcgacca tatgatggct ctgcattttc tgactgaggt 120
 cttcgatata tgcaagcata gaaccattga tcagtaactt catgcctagt catcagtggg 180
 aaattcatgt ctgcaatacc tccacacaat cgctgagtat cattcatcac agcatactca 240
 ggtatcacta catcagagtt gaaacataac tctgtccaat atcatcggtt ctaccgaatc 300
 attg 304

<210> 8595
 <211> 426
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-049-Q1-E1-G9

<400> 8595

ttccccggggcc gacgggaaaag gaaaatgaga ggcgaatggc aaataatgta atgcgatgga 60
gaagagtttta tgatgggtac gtggtatgtc ttgacttggc gtagatctcc ccggcaacgg 120
cgccagaaat ccttcttgtc gtctcttgag catacgttgg ttttcccttg aagaggaaaag 180
gttgatgcag caaagcagca taagtatttc cctcagtttt gagaaccaag gtatcaatcc 240
agtaggagac aatgcacaag tcacctagta cctgcacaag caatcaagaa ccttgcaacc 300
aacgcgataa aggggttgtc aatcccttca tggctactcg caaaagtgag atctaataaa 360
gatagtaaag taaatatattt ttggtatttt tgtagtatag attggaaagt aaagattgca 420
aaatag 426

<210> 8596

<211> 395

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-049-Q1-E1-H1

<400> 8596

cggggaccgt cgagtattat attagtattt gctttttagt ttaccacaat catccttgct 60
gtacacacct tttgggagaa gcctatttga ttagaatttg ctagaatact ctatgtgctt 120
cacttgatc ttttgagctt gatagttttt gctctagtgc ttcacttata tcttttagag 180
cacggtggtg tcttaatttt gaagaaattt ctagtctctc aagccttcac ttaaaatctt 240
tttgagagtg ttttagaaca gcatggtatt tgctatggtt atacaattgg tcctagaatg 300
gtaggcatcc aagttgggta taataaaaac tatcatagga agtgaattgg atgctatgat 360
caatttgata cttgataatt gttttttacat acgga 395

<210> 8597

<211> 421

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-049-Q1-E1-H10

<400> 8597

cgggtcgacg aaaacccta cttgccagag caaccaggca agccccctt ttgatcatcc 60
 cgatatcgcc cattccattc tctcatgctt gcattagatt ttgctattgt tattgtttgc 120
 tcctattctg atgcatagcc tacttttgta tctgctggtg taccttacct gcttatcctt 180
 aactgcttag tatagggttg ttagtgatcc accagtgacc cccaccttgt cccagttgcc 240
 ccgctttatg ttcgaagacc cgatcaacgg gatcgaagac caggccccgg caacgcacat 300
 cactctcccc ttagttgctc gacactactg ggtaactacc gagtgccgag ggtgagacct 360
 ctacaacact tctgatgta accctgtagt gtagctattc ggtcgtgggc atcgaggggtg 420
 a 421

<210> 8598
 <211> 162
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-049-Q1-E1-H4
 <400> 8598

ttatgtttgg tgggtccttt atgcagactg tgatcctggt gtgggttacc gtgaggaccg 60
 actggaacat agacgtggcc gtcgcgatga caatattgat caagtgggaa tgcaccacta 120
 tgcctctatt agcaggccaa gaatgaatca gtggatcctg tg 162

<210> 8599
 <211> 289
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-049-Q1-E1-H6
 <400> 8599

gacaaagtgc acgtggacta gtcggataaa aagctcttat atgatcagca gatctacaag 60
 atcaacactt aactacacat tcatattaga tatgaggctg tctgcattat cccatagatt 120
 ccattaagct cacgggtgcta tagagaataa tctgaggctg aacggataca taattcatct 180
 tgagtctgat gacaggggac tgactacac accactagca tcataactat gatgtggaac 240
 agtatcctga ttaaactatt ttctggatta tgaatgaatt ctggaacat 289

<210> 8600

<211> 388
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-049-Q1-E1-H8

<400> 8600

attccgtatc gacggggaac aacgacaaga aaggattcta tcaatgtatc atcagtatca 60
 atcactacat gacaccacac aacagatatg ctgctgtcaa cagtcctctc caaaattaac 120
 acggcattta ccgtataatt acaccattgc tgctgtcagc attgctctct aaatagacac 180
 tgcaattatc atgtacatca ttgctgctgc aatgaaccat taagaattat ttaaaatcta 240
 gcctaccatc tgcgttgctg tcaacagagg gttgaggcgg agttacaaaa tctgtatgag 300
 aaaccgaggg attgtccgag tcagcgacat ctttgttatc ttcagagttg tcagaagcag 360
 ctgagatggc gtcacctgat tctgaatg 388

<210> 8601
 <211> 409
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-049-Q1-E1-H9

<400> 8601

cccgggccga cgggggggta aaagcatgtg gcgtcttatt taaccttggg ctcaactatg 60
 cgtccgcgac atcatcgctg gcgttgtaaca atgttcaacc cgtgggttacc ttcattcttg 120
 cggtcataat tgggatggag tctatgaagc tgaagaagct ccatggcaac ctaaaagtgg 180
 caggcattct ctgctgcgtc gccggcgta cgggtgctggc cttctacgag gggccaatgt 240
 tcagatcttt caaccatcac cggctcttcc agcaaggcag cagcagcagc tcctccggag 300
 caggcaccta ctccaagaac cagtgggtat ttgggatttt cctcatgaca ctctccaaca 360
 ttttagcagg cttgtggacc gtgcttcagg ggccactgat agaggacac 409

<210> 8602
 <211> 391
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-050-Q1-E1-A1

<400> 8602

gggccccgag aagcatgcg ctaggacttt gtttcgatga ctaatagatt tctgcaataa 60
gtatgtgagt tctgtatgac taatgttggg tccatggatt atacgcactc tcacccttcg 120
accattggta acctctctag tgcccgaac tttcgccgtt agcttaaacc caccatatac 180
tttctctatc acagccacca tacctaccta ttatgacatt tgcatagcca ttccaacata 240
tattaccatg caactttcca ccgttctgtt ttattatgac acgcttcaac attgtcatat 300
tgcttggcat gatcatgtac ttgacaccgt acttgtggca aagccaccgt tcataattcc 360
ttcatacatg tcaactcatga ttcatgtcac a 391

<210> 8603

<211> 356

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-050-Q1-E1-A10

<400> 8603

tcccgggccc acggggacca caaggagaag aaggacaaga agaagaagaa ggacaagaag 60
cacggcgagg gccacaagga cgacgacggc cacggcagca gcagcagcga cagcgacagc 120
gactgagcca gctccggccc cgctccggca gcagcgtgca gtgtaggcga gatcgatgaa 180
cgcttggggag aagtgtggca tacatatatg ttgcagggtt tggagcgtgt ggtagcatat 240
gtatgtaatg cgtgacatgt ctcatggatc ttgtgatgta taataattag ccggctgcac 300
tgactgcac ggtgcttgta ataataacgt taatgaatca tgttggtatt gatgtt 356

<210> 8604

<211> 386

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-050-Q1-E1-A11

<400> 8604

acgagatgtg gaggaacga gacgtatggc acctagtgtt cactcgactt tatgtgagaa 60
tgagttgaga gaccgtaat tgctacgttt ccgaattgag aagcatccac tcgtctagta 120
atacccttat ggaccagtgc ataccactgt ggcatttcgt attcatcata agcagtccaa 180

acctggtttt caataaacia agcttaagtc cgaatccgtgt cgaagtcgta aaaatcagca 240
tatggaacac tcataaccac ctattatat tcatcctcat taaccatata actagtgttc 300
ttgttttcat aaatctttac tctttttact gcattacata tctttaagtt ttgaattgtt 360
tttgtaaacc agcagcacca actttc 386

<210> 8605
<211> 269
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-050-Q1-E1-A3

<400> 8605

cctccgggtc gacggactgt gtcatataac aatgggctaa gtcacccggc cctgcccgcc 60
cgtctttctc ctgtccgac gatcccaagc ctgcacggtg tcaactttcg ttagctttct 120
cgtgtctgtt attaaataat acgatcgaat cgtggcctct ttggcatgta cgtactatat 180
gatctatttt cagttatcga cttgctaatt cgggatgaat tgttctatct gcactctgca 240
cttgggatta acctgtctt atgtttctc 269

<210> 8606
<211> 396
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-050-Q1-E1-A5

<400> 8606

tgtgtcatat aacaattgta ctaaataatag taaagaaatc ttaagatttc gattcccagt 60
aaaaaaaaat atagaataga aaaatatggg aaaaaaaata aatccactcg gtttcagact 120
tggtacaacc caaaaacacc attccttttg gttcgcacaa caaaaaatt attcgggaag 180
tctacaggaa gataaaaaaa taagggtattg tatcaagaac tatatacaaa agaataaggaa 240
aaagggtctg aatagaaaaa tagaatcaga ctcaagttcc gaagtaatta cacataatag 300
aaaaatggac tcaggttcaa gttccgaagt aattacacat atagaaatcc aaaaagaaat 360
cgatacgatc cacgtcaaaa tccatattgg attccc 396

<210> 8607

<211> 403
 <212> DNA
 <213> *Triticum aestivum*

 <223> Clone ID: LIB104-050-Q1-E1-A6

 <400> 8607

 ccgggtcgac ataactaaaa atccaggtgg ttaaaccaaa atcacacaga aaaagggagt 60
 accttgctct gataccaatt gaaagtgcgt tatatcgact agacgggggtg aataggtgac 120
 ttttatgaat tcttcactga ggaatttcag ggtgaggaaa ttcctaactg aagaactact 180
 tgcagcggaa taagtactca gaatctatca taacagagca taagcatggt catcatgatg 240
 aatgaaaaa caagcacaga gtacagaaaag tgtaaacaca ggatacacag gatgaagaca 300
 aacagactga agaaaatgaa ctgaggaaat tgagaaagtc ttcagtcaaa gtcttcaaac 360
 aaatatgaac aagcacacag tacagtaatg aggaaatgga aga 403

<210> 8608
 <211> 373
 <212> DNA
 <213> *Triticum aestivum*

 <223> Clone ID: LIB104-050-Q1-E1-A7

 <400> 8608

 gataacttag catattagag ccaacttagg taaaatggag ccaacctagc taattatgcc 60
 atctttgagt gaactaagca tattagagct aacttatagc taacttatgt cattttggaa 120
 gaagaagaag aagaagaaga agactataag cttattatgt aaacttggtc attttgtgct 180
 aacataagta attttggagc taacctatag gaaactaaac atagtagaga taacttagca 240
 tattagagct aacataggta actaagcata ttagagctaa ctatatatag atcattttgg 300
 agatctgaca tacctgacat tgttcagttc tcattgttct tctccttctc cttcctcagc 360
 ctgatgcgcc aag 373

<210> 8609
 <211> 398
 <212> DNA
 <213> *Triticum aestivum*

 <223> Clone ID: LIB104-050-Q1-E1-A8

<400> 8609

acggactaag caatttagat ataacttagt atattacagc caacttaggt aaaatggagc 60
gagcctaact aattatgccca tctttgagtg aactaggcat attagagcta acttatagct 120
gacttaggtc attttggttag aagatgagga tgaagaagaa tactataagc ttagtatgta 180
aacttgggtca ttttgtgcta acataagtag ttttggggct gacctatagg atactagcca 240
taggtacaga taacttagca tattagagct aacataggta acgaagcata ttagagctag 300
gtagatatag atcatttttg ggatcggaca tacctgacat tgttcagttc tcattgtgtc 360
ttctccatct ccttcctcag cctgatgcgc caatagcg 398

<210> 8610

<211> 375

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-050-Q1-E1-A9

<400> 8610

ttagacattt taactatcta attatagtgt atataatctt taaataacta attaatTTaa 60
cacaaaatat aaaaataaaa gatcaaaact cagaaactag cctattgaaa gtgtcttgac 120
caaacttgag ttcaaagggtg tcaattctat ttaaagctaa gaaaaacgta tgcatttca 180
atattcagta tccatcaaat tttggtctta atgatgcgtg gttttgagtg gaaagtttaa 240
gatggactac tgttttgttt agtattattc ttacattcat ggattgtaag aaaactTTaa 300
tatctttttg ctctcacag ggataaaaaa gataaagaaa atttatctag aagaagggtga 360
atgagaagggt gaata 375

<210> 8611

<211> 364

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-050-Q1-E1-B1

<400> 8611

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ttcaatatcc ttctccaaat ttttgaagac ggtcacctgg cagactcaca gggtcgcaga 120

gtttcgttca agaatacatt gattgtcatg acatcaaacg ttggttctac atcaatttca 180
aacggacgac ggaccatggg tttctcaaca gatgacaccg aatcaagccg atatgtcgcg 240
gtgaaatccc tcgtgatgga agagctgaag ggattcttcc gtccagaatt gctcaacaga 300
atcgatgaaa cggttgtgtt ccgctcctctg gaacagactc agatgctagc aattctcgat 360
atcc 364

<210> 8612
<211> 258
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-050-Q1-E1-B11

<400> 8612

atttacatgt tatttgcgta taaaacctta tatgtgtgtg tgatgaggtg tctatgtgcc 60
tataggttgg tatcatatcc gtcaagcatc aggtatgtta atgactgtcg ggagtgttcc 120
ccccattgc atcagtctgt ttgcgcttgt gaatctgttc agcaggttca acgagcgatg 180
ttcatcaggt tcaaattttg gtcacgtaag gtttgacaat attcagccat tttttaaatt 240
catcagccga tattttcg 258

<210> 8613
<211> 398
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-050-Q1-E1-B3

<400> 8613

ttcaacgtag agaagttgac tcatcaatga ggaactgttg cgatgaatat ccaattaggc 60
caatcccatt cactttcaca cggtatgttg tgtgtttag tctggtaata ttttgttcac 120
ttcaatatca ggctgcaatg tatctaccta gccaaatggg gtggaatact taaattttac 180
ttggtatatt tgtcagcaga tgtaacatgg aagggtactgg caaagtggca atatgattgg 240
tgttttcttc acaaaggaaa atgatgtcca tctggcttca atgtcacagt tactctggaa 300
gtctaattct tctgtgttct tgcagcacac aaaaaagga aaaaagaaaa agacaaagga 360
aaaaataaaa aaggaagaaa aggaaaaaga aaaagaaa 398

<210> 8614
 <211> 364
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-050-Q1-E1-B4

<400> 8614

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 gcagtacatc cagaccctcg agttctacgg cggcggactg ccgctcatct gcaccatgta 120
 cgcattcttcg gagtgtctatt tcgggctgaa cctcaatccc atgtgtaagc ccggcgacgt 180
 cgcgttgacc ctcatcccca ccatgtgcca ctctgaattc ctccccgtcc attgcagcaa 240
 cgccaatgcc gggccgagcc accgcgacct cgtcgatcta gttgatgtga agctcgggtca 300
 cgactacgag ctctgtggtaa ccaccttctc aggtttgtgc cggatcgtg tgggcgacgt 360
 tctg 364

<210> 8615
 <211> 417
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-050-Q1-E1-B5

<400> 8615

gactacacca aaacgaaatc caccatctca tcgaaagacg ggacaccttt gcctttatca 60
 agtggatatca gatttccagg ttgctcgggtg agattttaca gtttttcgta gtttagatcg 120
 agtctgttct tcatacctat agtccacgaa aaagccaaaa aaaaattagg gttagttcat 180
 cccatccgaa ccaatctgag ccttgcataa tcttttctgt atttgctttg ttgaatttgc 240
 ggttgcatcg tcgtgttcag ttgctggtct tagcgtctag tcttttagag ttctgagttc 300
 tggtcacaag ttgtcacgcc gtcgccgcac caccatcatc gccctgcca tctaccacca 360
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<210> 8616
 <211> 428
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-050-Q1-E1-B8

<400> 8616

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ccctggaagt tgcgaggaa tgcggcttcc aggtcctccc aagaaccgat tgagtctgct 180
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gccgggtctg ttgtgccatc gtatggctca atgtttacgg gtttgaaacc ctctgggatt 360
ttatgatcta ttacttcatt cgtgaagcat agcgggtgtg cggcgctct gtattgggct 420
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<210> 8617

<211> 402

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-050-Q1-E1-C1

<400> 8617

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cttgctgggtg tcttatgggtg ggggtctgag aattttgaca atgataagca acaaataact 120
gtgttagtgg tggttggatt gaattttgat tctgaagggt ggaattgctt ggctgtgttc 180
agatgagagc tcctttgcaa gtcctcttcc ggatagcagc tagagcttga atttcagagt 240
gtggcactaa gaatgcttat aatgagtttt gcagacatgc ttgttgggta atttcaatta 300
tttctcatgg gtatttgtcc cagggttttg actgtcaaaa cggtttctgt tattttgcct 360
gttttcatca gtgtatactg aataaattgt aatgggaaaa cc 402

<210> 8618

<211> 390

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-050-Q1-E1-C2

<400> 8618

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gctagttggg tgattatgaa ttcaaagaat gcttgtgttg aagttagcaa gtcccgtagc 180
atgcacgtat ggttaaagtt gtgtaacaaa tttgaaacat gaagtgtacc tggcttgtgc 240
atccttatga gtggcggtcg gggacgagcg acggtctttt cctaccaatc tatcccccta 300
ggagcatgcg cgtagtactt ggtctttaat gacttctaaa tttttgcaat aagtatatga 360
gttcttttga acaatgttga gtccatggat 390

<210> 8619
<211> 414
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-050-Q1-E1-C3

<400> 8619

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atgatggatg ccacagcaca cagcagcacc agcagtacag tgttgctgag cgaacgcgtc 120
catgcatgtg cggaccatgc tctgcctcct ctgcttcagc gcccgcccaa gtgtcggcag 180
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actgttcaact cattcattag ccgtcgcttt ttggtacgtg ccaactgacac gtgcaactgtg 300
tacatgtatg ggcgaggacg ctcggcgcgt ggccggtggc gacggtgtcg gagcgcgagc 360
ggagggcgac ggtggacggg ccggtgtgcg ggggctcgcc gttggcggtc accg 414

<210> 8620
<211> 317
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-050-Q1-E1-C4

<400> 8620

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aggccatatc agacactgag cataagcact tcgccgtgta gatagataac agtgacagaa 180

tgctataaat aggtactata aaggagacaa ataggtttgt gttttcctta gatgacacga 240
catgttcata ggagtggatt gcatagcatg ggttctaata ttccaccaat aatgagaacc 300
taactttaat gattaac 317

<210> 8621
<211> 219
<212> DNA
<213> Triticum aestivum
<223> Clone ID: LIB104-050-Q1-E1-C8
<400> 8621

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aagtacacgg tcaggcacgt cgagctccgg tgaacatggg ttgctgtcgg ttatcctctt 120
tggtgtatat gcttcgtcta cagagctact ttgacatgtt tcaagtccgc ccagtttcct 180
gaacttgtgt ccatttgcac accgcgtccc tttggaaca 219

<210> 8622
<211> 388
<212> DNA
<213> Triticum aestivum
<223> Clone ID: LIB104-050-Q1-E1-C9
<400> 8622

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tttctactca tgattaatca agtggaccta gtatccgagc agatgacaca gttatgatcc 180
acaagaagct caatagagaa gcaagcataa agggaagatt agtaagacca ctgagctcac 240
ccgtttatga gaactttcga gccaatattt attaagcttg gagtaactta atttgccagc 300
tctcatggca gagatagcat cattatccta aaataagcca aaagaaacaa cacatgtcaa 360
tctacaattc ctttttagtt gaatttgt 388

<210> 8623
<211> 375
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-050-Q1-E1-D11

<400> 8623

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atccccgagat attccaaaga aaaaaaaaaat aataataata aacgattaaa ttatggaagt 120
aaatattctt gcatttattg ctactgcact cttcattctc gttcctactg cttttttgct 180
tataatttac gtaaaaaccg ttagtcaaaa tgattaattt gaataaaatt ttactatcaa 240
aaaaaaaaaa aagatttcaa tttctcgtct taaatgaaag gaacgcatta gactcagtag 300
tagtatccta aggggtccgc tagtatggta gaaagagatc tctttcaacc atactagcca 360
ttatggttat tgtaa 375

<210> 8624

<211> 404

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-050-Q1-E1-D3

<400> 8624

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aagaaggacg gcgacaagaa agaggagggc gacggcaaga aggacgacca gaagaagccc 120
gccgccgtgg ccccgtgcc gttcccgac cacatgccgc tgccgcacca catgccgccg 180
ccctacatgt tcaacgccga ctacatgatg aaccagtacc ggccggcgcc gccggcctac 240
ccgccgccgt acgtgccgcc gcagcactac tacgtgcgga acatgagcat ggaggagaac 300
ccaaactcgt gcgtcatctg ctaagtcaaa gtcgatccct cgatcgctcg cgtacgtacg 360
ttccgtgggg cgaccatgca tgcattctgt tatagtagta tttt 404

<210> 8625

<211> 417

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-050-Q1-E1-D4

<400> 8625

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aaagagatgg cgccccgagg ctccgtagaa agagaagaga agtggtgttg tatcgccaat 180
ttttcgaaat ataccgtctg ctgttccctt ttttcccgcc ttgttgcctc ttttttttca 240
ccttggtgtt tgactagacg gctcgaaata gacagaactc ttgatcgggg cctgtattta 300
attgtgagat tctttgtagc gcagccggag tagtagaaca tggtgcctgt tttcgcagca 360
tttttcgcag catttttcat tcttgtttcc ccagcaacat agttaagatt tgttatg 417

<210> 8626
<211> 410
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-050-Q1-E1-D5

<400> 8626

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acggcaagat ctgtgtgacc atctttttca acacctgtac attggatctt ggaggaccaa 180
tcagtatgaa cgcgtcgtgt catcattcct cctgggtctac attatgcca gacatgcaaa 240
gttgtggata gtctgtaagc taccatttgc tttcgtatgt cctatgtctg tgatatttgc 300
tactaaacct attgtgctac gtgctctcta tgttcgtaca ttgttaggtg gtccttatt 360
gtgtgcatac aaccaaacct tacttctgaa tgattcttca ttagtttttt 410

<210> 8627
<211> 428
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-050-Q1-E1-D7

<400> 8627

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aattatcaaa gtagcaaaca cgaattaagc caacatgatg aaagtgacta gatgaaattc 180
ccgtgtaccc tcaagaacac ttgcttatac ataagagacc attttggcct gtccttttcc 240

tcaaaaggat tgggctatct ggctgcactt ttgttactac aatcgttact tgctcattac 300
aaattatctt gctatcaaac tactctgcta cttacaattt tagcacttgt agacattacc 360
ttgatgaaac ccacttgtct tttccttctg ctccccgttg ggttcgacac tcttacttat 420
cgaaaaag 428

<210> 8628
<211> 416
<212> DNA
<213> Triticum aestivum
<223> Clone ID: LIB104-050-Q1-E1-D8
<400> 8628

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caaggaggag ctctactcac tcgtcaccgt tgccgaggtg cctgctgagg gtttgaaggg 180
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aatgagctgt tatttggaat tgcaccagca tgctttttgt atcccgaga agttttggag 300
tatggaatat cgggagctat ctattttcct tcatctaaat cttgatgatt ggttttgtcc 360
ttcatactgt gctcgttatt ggcgtcaata caggatgtgc agttgagctt gcaaaa 416

<210> 8629
<211> 374
<212> DNA
<213> Triticum aestivum
<223> Clone ID: LIB104-050-Q1-E1-D9
<400> 8629

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taccctatct tgtttataac agctttgata catgttaaatt attcgaaaac aatgtccgaa 180
catataattg ttgtccccta atataacaaa gatcacgaaa aggctcgaaa agtacattaa 240
agtacaattt ggagtagaaa aaaaacaata gaagaatttc attttccttc ctcatcatt 300
ggagagctct ctttgggctt tccgaaaagg tatcacatgt caagtttggc ctactgtat 360

aaaagttata aagt

374

<210> 8630

<211> 402

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-050-Q1-E1-E1

<400> 8630

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atctgtctca aattggcttt gacgttgaag caattcaaca gatggtagct ggactggaag 120

agaagattga gttgcttgac aataaacagg atgcggctaa tgctggtata tggatatctct 180

gccgaatggc aggaggtata aaagagggaa taaatgccaa gtttttccaa gaagcggatg 240

aaaaactcaa gctcttgac ctggctcata ctgaaaagaa gccggtgaag ggtctggagt 300

tgtttctgga gagcaccaag gaagccaagg cactcgactc caagcctaag accatcgtgc 360

agaacgatgc caagaaaccg atgaaggcgt tcgacgtgcc tg 402

<210> 8631

<211> 368

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-050-Q1-E1-E10

<400> 8631

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gaggtccagc gtctagatgc tgatatggac cgcttcatca gggcccagag tgagcgcattg 180

aggcagteta tattggagaa agttcaggca aagcagtttg aagcgtggc ctctgttgaa 240

gacaagatcc tccgaaaaat acgcgataaa gagtcagaag tgcagaacat caacaaaagg 300

aacctggaac tcgaggacca gattaaacaa atggcagggg aagttggtgc gtggcagcaa 360

cgagctaa 368

<210> 8632

<211> 407

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-050-Q1-E1-E2

<400> 8632

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tagttagcta gctatggagc cggcgagct gagtcgctg gcagttctgc gtggaggaag  180
aataggaagc aatagttgag gcttggctct atacgtgtgt atccaaagat tctggagact  240
tggtctgttac ccaagcgtgt gtagctagcc cgtggagtac taatcggatc aagcaaccgt  300
gggcttgacc atgcatgcgt gtgtgcgtgg ggtagtggg tgtgtgtgag tcttgtactt  360
ggctatataa gttgagtaaa tgaatgagaa aagccgccgt gaaggct                407
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<210> 8633

<211> 418

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-050-Q1-E1-E3

<400> 8633

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accaaggtaa aattcaagga caacaaaag cctaagcttg gggatgcccc ggaacgcac  180
ccctctttcg ttttcgtcta tcagtaactt tacttgaggc tatattttta ttcaccacat  240
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aatcatcctt gctgtacaca acttttggag agacacgcat gaatcggaat ttgttagaat  360
accctatgtg cttcacttaa atctttttac ctaaataatt ttgccctagt gcttcact    418
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<210> 8634

<211> 57

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-050-Q1-E1-E4

<400> 8634

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<210> 8635
<211> 254
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-050-Q1-E1-E7

<400> 8635

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atgtctcaga cattgatcaa catgtcactg aacagaaact tgctgaggtt ttctcaaact 180
gtgggtcaagt ggtagattgc cgtatctgtg gtgatccaaa ctcaagtatg cgttttgctt 240
ttatcgactt cgcc 254

<210> 8636
<211> 365
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-050-Q1-E1-E8

<400> 8636

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tacaaatttt tgccttccca cgccgtgcat ttgcatgaat tggagggaaa atttgaacag 180
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atgcatgaaa gctctgcaaa ttgtgtgtgc atgatttcca atatggtcac aatatccctg 300
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ggaaa 365

<210> 8637
<211> 363
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-050-Q1-E1-E9

<400> 8637

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taattgctca agagaaatca aaaaaattat caaaatattt tttttgatgt atctttttat 240
attgtacaaa cataagattt tttgctcact taaagtaatt aatttcaaga tctttttatt 300
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aat 363

<210> 8638

<211> 360

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-050-Q1-E1-F1

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tttgactata tattatattt ttctgtttta acaaattcaa tataaaaaaa accgaacttt 180
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gataaattta catgctttct cattccattc gcgaggagct ggatgagaag aaactctcat 300
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<210> 8639

<211> 386

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-050-Q1-E1-F11

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gcgcggttcc ctcatattt acttaaatg tagatattgc tccatgtaag aatataagat 180

actgactata tattgactaa tgtattactc caatttaacg gaaataaagg tgacacatgt 240
 actcaatcaa caagatgagt tattcataat gtaatgaaat gggacatatc aaaacttgag 300
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 atctgatatt gctccttatt atagaa 386

<210> 8640
 <211> 405
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-050-Q1-E1-F2
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 aatTTTTGCA ccgtacttcc gccatgtag gccgcgtttc atcttttGCT tGttctgata 300
 gtatttcaac cctttttgtg ggaaaagctg atattggta gatgttgggt atagaagagc 360
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<210> 8641
 <211> 366
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-050-Q1-E1-F3
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 agatcagccg cgccgccgag cagaggcgcg cgctgatcac cctgggagca tccagcgcca 300
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366

<210> 8642
<211> 424
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-050-Q1-E1-F6

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tcggggggta ggcctatata aaccctcgg ggcacccatg caaagggttc ggacctagag 180
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cagagcagca gtaggggtgt tatctcctag gagagccctg aagctgggta agttccgccca 360
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catg 424

<210> 8643
<211> 384
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-050-Q1-E1-F7

<400> 8643

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<210> 8644

<211> 431
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: LIB104-050-Q1-E1-F8

 <400> 8644

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atttgttggt catggtataa tcaggaactt gtgcaaaaaa aaaaaaaaaa aaaaaaaaaa 240
aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaattaaa 300
aaaaaaaaaa aaaaaaaaaa aaaaaagcgg gccccccaaa agtttcaaac ttaatttacc 360
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<210> 8645
 <211> 369
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: LIB104-050-Q1-E1-F9

 <400> 8645

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atgcgggtgg aatcgatgtc catggggaca tcgcggtatt tcgtgcgcaa gacgactatc 180
ccgacacca cacagactaa gataatccat gtcagcccat gccatgacac gccattctc 240
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<210> 8646
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 <213> Triticum aestivum

<223> Clone ID: LIB104-050-Q1-E1-G1

<400> 8646

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tgaagggtgg gttctatgtc agtcctgagg ctaagctgct gtttgttgtc agaatcagag 180
gtatcaatgc catgcaccca aagaccaaga agatcttgca gctgttgctg ttgagacaga 240
tattcaatgg agtggtcctg aagggttaaca aggccacat caacatgctc cgcagggtcg 300
agccatatgc tgcatatggg taccgaacc tgaagagtgt gagggagttg atctacaaaa 360
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<210> 8647

<211> 234

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-050-Q1-E1-G3

<400> 8647

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ggatttattc caatctgttc cactgggcta atacagaact catgtgaacc tgctgtaac 180
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<210> 8648

<211> 347

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-050-Q1-E1-G4

<400> 8648

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atcaagtcca aaaggccctt cagcctttgg ccgatctagc gaaactttat gaaaagtact 180
ctggctcacc atgaaaggaa ttgcaaaatg cttcaaagta cccacgacc gtgtctacgt 240

agatgtttct acggcaggaa tctgatcgca ttgaccccaa acagctgcta acctgccact 300
accacggcat ctttgaagta aacatccgcc ctttatacgg acctcat 347

<210> 8649
<211> 229
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-050-Q1-E1-G8

<400> 8649

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gttgagccgt gtgtcattac gattatattt ctctgttcat tggatctgtg atgtttatcc 120
acacgctcat gtgggttcag atacatggat ggtctgagta caacgctatg tcaggaacac 180
aacaactggt acagttcatt cataatgtac ttcttgtgtt tgctcaaaa 229

<210> 8650
<211> 377
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-050-Q1-E1-G9

<400> 8650

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gaaaactact tagaggcgac tgactcacac aaaaaaaaaa cttaaattcat ttttttttca 180
atcaaccatg ttagtttggt agaaacttaa gtttaggtct tagtttaaca aacgcacgaa 240
atttcgataa cattagatgt ttacatatt gttgtaccat ttacaaaaac tcctactatt 300
actttgtaaa ctaaaatcca aaagaatcat ttacaattac cacattccga aaaattaaaa 360
cttgcgatag tacaaga 377

<210> 8651
<211> 389
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-050-Q1-E1-H10

<400> 8651

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agtgttatct ataagccata tgagtgtgca tgggtcgtag atgcacatgt gtgtgccacg 120
tatgtgtgtc taggctcaag ccagaggccg gtgtgtgacc acgtctagct aagcgggagt 180
agccgagagt cagtcaatct gtttgagttg gtcatgtagt gctatagtgt ggcgcgcggc 240
cggacgagcc aatcatgcag atcgtgcatg catgtaggag tcagcgggta gttagctggt 300
tagtgcccg tgggcgtgcg tgtgtggtgg ccagggttag tgttgtgcgt gcgtctgtac 360
tagaccgat ataaatcccc tgctgctgt 389

<210> 8652

<211> 176

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-050-Q1-E1-H12

<400> 8652

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ctgtgacacc tacaccagtt agtgaggaag ctaaggatca tgatcatgac acttcagaac 120
aggatactac tggaagctcg tagatcaacg agatctaaga tccgcaccag agtggt 176

<210> 8653

<211> 360

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-050-Q1-E1-H4

<400> 8653

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tattcatcca gtctccacg ggtcctgtt catccagccc caaccggctc gatcgatcgg 180
ggtcctgttc atcccgaggc aacgccaccg ctcatgttc atccaccctc cccccccgc 240
aacgctcact gttcatcca gaggcagcat tgatcagctt ctgtagcag cagtagctaa 300
ggaatcgctc gatcgggttc agttaacagc cattgatcga tcgcccgggt tcagtaacac 360

<210> 8654
 <211> 429
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-050-Q1-E1-H5

<400> 8654

ccgggccgac caagacacgg attaaggaat ccttggtgga agcacaccaa ccgcaacagc 60
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 gagggcacct tgccggggga accaatggct cgcaacacta cacgcggcaa caggctccag 180
 ccctcgtcca acccaatccc gttcacatcc ccgactttct ctggggctat tatctcggct 240
 acgagctggg ctttgatgat tgcgccaaac tggacgaggt gatagacgac gccatggctg 300
 atatggcttg atgacgactc tggctctgat aggaaatgga tgaggctgca tgattctatg 360
 catatatagt atcgaaggcc acgctctccg tgtttgtgat tttatttgcc cactgtttgt 420
 gtggagtta 429

<210> 8655
 <211> 352
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-050-Q1-E1-H6

<400> 8655

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 cgaaggctta acgtgacgcg ccccaaaacta agtgcagatg ctaggatgcc gtgtgatgct 180
 gcaaacacgg cgatatgccg atggtgatgc gtgagaagcg gcacgacgta tcagaggctg 240
 gagccgtgat ggacagcatc aaattgggtc cgggtgaacca gacggtctta tcggtatgct 300
 tggccagctg ttcaaacgta tgttccttca gtctaaccg atagtatcgt tg 352

<210> 8656
 <211> 246
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-050-Q1-E1-H7

<400> 8656

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aatcatttat aatgatctta tgtagggaat actatgtcta tttcatgaaa tgacgtcacg 120
ggcgtatttc atatgatgtg ggctttaaga atccaaatat agttaagcgc tcatgggtgcc 180
tgtgatatca tcctgacgct cccgggatat tcttttcctg ctgggtctga taaaaggtta 240
cttctt 246

<210> 8657

<211> 270

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-051-Q1-E1-A1

<400> 8657

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tttgactttt caaccacttt atgtgcactg gtgcatgtgc atgtagttaa aatttgaatt 120
atgcacataa gtgcattgac aactcactta atgcataaaa atgtccaaac gaaccacgac 180
gattctcaaa aaataacaca gcaactcatgt tgttctaagt tgataccgga aattttttta 240
aagcaatatg aggcaatgga tatagtttcg 270

<210> 8658

<211> 424

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-051-Q1-E1-A2

<400> 8658

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catttgtgct attcttcaat tgttccgagg aagagatgga aaggcgtctt ttgggacgca 120
atgagggtag agttgatgac aacatcgaga ctatcaggaa gagattcaaa gtttttgttg 180
aatccagttt gcctgtgatt gagtactatg acgcgaagga caaggttaag aagatcgatg 240
ctgcaaaacc aattcctgag gtgtttgaag atgtcaaagc catttttgcc ccatatgcc 300

aggctacata gaacagtata aaggaccaca aaggtgataa atggaatgat ttcatacaag 360
gttttgctca agtgtgacta catatctgtg attacaaacc cttaatatag atcagactta 420
tcag 424

<210> 8659
<211> 451
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-051-Q1-E1-A4

<400> 8659

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aaaagagaaa ccgtgatatg agaggaatta aggacacata aaagctcaag cttgggggatg 180
cccaaggcac cccaagataa tatttcaaga agtctcaagc atctaagctt ggggatgccc 240
cggtaggcat cccgcctttc ttcttcaaca atcatcggtt agtatcggtt gagtctaagt 300
ttttgcttat tcacatgagt tgtgctatcc ttgcaatgta gttttcttta gctttgcttg 360
ctgtttgaat aaagtatcaa gatctgaaat tctttaatga gagagccata catgatttgg 420
aatttgetat aatactctat gtacttcact t 451

<210> 8660
<211> 427
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-051-Q1-E1-A5

<400> 8660

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tgaaacatga agtgtacctg gcttgtgcat ccttatgagt ggcgggtcggg gacgagcgat 180
ggtcttttcc taccaatcta tccctctagg agcatgcgcg tagtgcttgg tttttgatga 240
cttctaaatt tttgcaataa gtatatgagt tctttcgact aatgttgagt ccatggatta 300
tacgcacttt tacctttcca ccattgctag cctcttcggg accgtgcatt gccctttctc 360

accttgagag ttggtgcaaa cttcgccggt gcatccaaac cccgtgatac gatacgctct 420
atcacac 427

<210> 8661
<211> 449
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-051-Q1-E1-A6

<400> 8661

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gctctagtgc ttcacttata tcttttagag cacggtggtg tcttaatttt gaagaaattg 120
ctagtatctc atgcttcagt tatatatattt tgagagtctt ttataacagc atggtatttg 180
ctatggttac aaagtgggtc ctagaatgat gaacatccaa gttgggtata ataaaaacta 240
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ggaggtagtg atattagagt catgctagtt gaggtgatta tgaaaaatac ttgtgttaag 360
ggttgtgatt cccgtagcat gcacgtatgg tgaaccgctt tgtgatgaag ttggagcaca 420
attttattta ttgagtgtct tccttatga 449

<210> 8662
<211> 398
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-051-Q1-E1-A7

<400> 8662

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taatctgcgc gttcattcac cgtagtagta ccgcgcgacg gaccgatcga tcgatgcgct 180
gctcgctcgc tggcgctgga accagctgaa ctttttggtg gctccctct cgtcccaccg 240
gcgacgcgcc ccttgattct tttttggcg tgcataaacc gccggctcgg tgtgacacgg 300
agatgactag atgagaccgc cccggccggc tttgttcctt gtctactccg ataatagtac 360
cgctgctttc taagcaccac cactactgct acaaagat 398

<210> 8663
 <211> 451
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-051-Q1-E1-A8

<400> 8663

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cccatttgat gtgctggctc gaaataagtt tgtgggtgct ggtgggggct agtcacttgg 180
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ggatttgTTa caatatttca ctcaaaatta aacaaatggc aagccatttg ccttgTTtca 300
aagaaaatat gacagtcaca gccgagttga aaagggcagg aacatctaac tccaacttac 360
aaactgtaca aagtacgag ggTTaattgt tcatcaggtt tacaaaaaaa ccagattgaa 420
aagggcaaca acatctaact ccagcactgt t 451
  
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<210> 8664
 <211> 403
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-051-Q1-E1-A9

<400> 8664

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cagtggatatg aatatcagaa atgcgttaag agaattgaac gtgatgagac cgggcagaag 180
cactgtactg gccattactt cgattactgg aaatgcatct acaagcatgt tgctgagaag 240
ctctttgata gcttacaatg acaaggaaat tgttctctct agctactttt cactcaacac 300
tggttaataaa tagtatcatt tgcacgcctt atctgacaat tcaggctctt atcatcatat 360
atgtaaaaga aggttttggc tgtcgggtaa cagcacagtt ttt 403
  
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<210> 8665
 <211> 295
 <212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-051-Q1-E1-B1

<400> 8665

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gccactacg aacggagacc cctcggcgac ctctaccct acgagatggg ggcgtggccg   180
ccggagctca aggacctggg gaatcctccg gtgaatgcat atcgtggcac tgcgtgctga  240
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<210> 8666

<211> 421

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-051-Q1-E1-B2

<400> 8666

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ccgcattcgg ctgttgggtc agaatttcac ttgagacgta caggagaccg ggacagcgat  360
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<210> 8667

<211> 413

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-051-Q1-E1-B3

<400> 8667

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ataaaaggggt gcatcattac caagcacctg tgtaaacaac caaaaaacca aaaacccta 180
aagggtacgg aaccgtactg gaggggttggc taaacggacc ctgcaaaatt catagcacag 240
agggcgccac tccaactcac agccttcgag catgttggat actacggcag gtggccaaaa 300
gtggcgaaaa gcttctagct tcagaatccc aaccagcaa caccagtaca gtgttaacag 360
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<210> 8668
<211> 413
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-051-Q1-E1-B4

<400> 8668

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ccttttttaa tcgacaatgg atgttggcag gagcaactga cccaccacga tgctcagttc 180
agtagaaaaa aaggatgctc agttcagtac agatctgttg tgattttgca aggcctactg 240
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cccttgcatg cagatccaac acaccatggg gtcttggagc agcgtatcat gagatggacc 360
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<210> 8669
<211> 453
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-051-Q1-E1-B5

<400> 8669

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acctgaccac gaggggtctgt ttctgcgag caaacgaaga acaagcaaga aactgagatt 180
gcaatctgga tattgcgaat ataagatgaa agctttattg atcaaggtgg ggttctgtga 240

cgccctttgtc tggtcgttga acacaaacga agtacgcgaa gttgcagcta tggatgaactt 300
 ttaatctaaa caaaacccaa agtctaaatg atgccctaag ggctgtatat atggaggaag 360
 aggggggaat ttcgtggccc ttggtggagg ggtccgaaat caaccctatc tcttgtttcc 420
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<210> 8670
 <211> 441
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-051-Q1-E1-B6
 <400> 8670

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 aaccgccgctc accagtgtc atcgagagcc tgataccccc caaggaatgg gcagaggacc 180
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 tcaacgtcga tcccgatgat gtggtggcca ggctcgagcg catccttggc ggagttgacg 300
 tccccgatga agtagaacat cgccaacatg atatcttgag gatgcaggtg atcgacggaa 360
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 ttgcacgcta tcaagctctt c 441

<210> 8671
 <211> 429
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-051-Q1-E1-B7
 <400> 8671

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 gtgacgtagt ctaggttttc caaaactaat ctggtgacct gggaggtagc tgtcgatctg 180
 ctccagatgg ccaagcgagt tggcccacag tgcgaagccg ccgaacatga agatctggcc 240
 ggggagaaaa acttcccccc ggacagcatt gttgtagatg attgacgggg ccatcaaacc 300

tcttgggtgac gacgcagcgg aactctcagt gaaagcacca gtctcgggtgt caaaaccggc 360
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 gacacgatg 429

<210> 8672
 <211> 340
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-051-Q1-E1-B9
 <400> 8672

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 gttggcaaag gtgggggaaa gaaatcccat catttccett cccacccgag ttgttatccc 180
 ccttttttag ggatcttgat cttatccett cgggatatga tcttattcct tcgaagggtg 240
 gatcttgggtg caccttgacc agaggtgtgg ggactttccc ccactaccca cgttcaagtt 300
 ggtectccca tgcaagttgg cctcacttcg taaccttcta 340

<210> 8673
 <211> 409
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-051-Q1-E1-C1
 <400> 8673

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 atgctgattg cttttccaac aaactgttct tcaagccgga taaattccga cgccgttttc 180
 gaatgggaag gcatgtgttc aatcgtatcc gaaagggagt ggttgctcat gaccatact 240
 tcgagtgoaa gatggattcc cttggcgagc ttgggttctc ctcttgccag aaatgcatcg 300
 cggccgtccg catgcttgcc tatggaattc ctggcgatct ggtggatgag tacgtgcgta 360
 ttagcgaaac aacatgtctg atgtcaatgt acaagttttg tcaggttgt 409

<210> 8674

<211> 429
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: LIB104-051-Q1-E1-C2

 <400> 8674

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ggatagttca catatctgca tggatagttc agaaacacta gtcattttca ttcattctctg  120
catcagcatg atagcactca agttcacatt gacagcacia catgggggat gctccagtat  180
ttcaaaataa aagagaggaa aaaagggaca tgccccagca tgatacatgc tccagcttgg  240
gctccacaaa agataaagta catgggttaac agcatcttgc tgttttctagt tacacaaaaa  300
tgatgtagcg catacatttg tctacaaaaa agcagtctaa aactatctag gaaacacttt  360
gctccaattg acatcttcta agaactactc agcagtttct gaaactcttc ggctgagttg  420
agtgtgttt                                     429
  
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<210> 8675
 <211> 387
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: LIB104-051-Q1-E1-C4

 <400> 8675

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aggctgggag acgaatgagt gattcctcgg acatccatga attacatatt agcacctgca  120
taatcgagaa agcagattac aaataatggt agaactctgaa cgaattaaga agatgtgggg  180
aggggggtgg cagagaagga cgacggtggt cgtcgcacga cccgtgatgg atgagctcca  240
ccggcgacgc ccatgacctc cgaagaaggg gtggaagagg gtcgagcgga gctgctcgcc  300
ggggaaggga aggcagctgg ccatggaagg gagaggattg ggcggtggga tctagatcaa  360
gatttatttc tttttctaag aacatct                                     387
  
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<210> 8676
 <211> 411
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-051-Q1-E1-C6

<400> 8676

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acaagaagga cggggagcac aaggaggga tgatggagaa gatcaaggac aagatcagcg 120
gcgacggcca cggcgacggc aagaaggacg gcgagcacia ggagaagaag gacaagaaga 180
agaagaagga caagaagcac ggcgagggcc acaaggacga cgacggccac ggcagcagca 240
gcagcgacag cgacagcgac tgagccagct ccggccgcgt gcagtgcagg ggagatgaac 300
gcgtgggtta atttggagcg tgtggtagca tatgtatgta atgcttgaca tgtctcatgg 360
atcttgtaat gtaataaccg gctgcactgc atggtgcttg taataataac g 411

<210> 8677

<211> 435

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-051-Q1-E1-C7

<400> 8677

attcgggggc cgacgaagtc atcaaaaacg cattcgtaat cgacgggaac gtcttcttcc 60
actgaacgca caatattgaa agggctgaaa taaattcaga aaaatatgag caccaacgtc 120
aaataaagtc tgacacttaa actctattcg gctgaggata ccactgtcct cataaccatc 180
caaccacagg ttaatttgtt ttttctttct tttaaggata cataatttgt ctgatgagat 240
tgattttaca acacttgctg cgttaattaa caagctcgag aaaaacacat cagatgaacg 300
agtaataagt gggcaggcaa cataaaacaa gaaatgcaaa ttgaccatag ctgagatggt 360
tatgtttctt gtggtggaac caactcatta gaatttaagt ccttgactta gtatcggcgg 420
tcgcattttt ctgaa 435

<210> 8678

<211> 369

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-051-Q1-E1-C8

<400> 8678

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ccatacggaa ctcaaaatat tttccggaga tattcatttt cctgaagagg cggataagat 120
attaggtggc tgtttgatac cgccagaaag acaaaaaaaaa gattctaagg aatcaaaaaa 180
aaggaaaaat tgggtctatg ttcaacggaa aaaaaattct caagagcaag gaaaagtatt 240
ttgtttccgt tcgccctaca gtggcatatg aaatggacga aggaagaaat ttagcaacac 300
ttttcccgca agatctcttg caagaagaaa ataatctcca aattcgactt gtcaatttta 360
tttctcatg 369

<210> 8679
<211> 369
<212> DNA
<213> Triticum aestivum
<223> Clone ID: LIB104-051-Q1-E1-D1
<400> 8679

cggtaataca agtaaattaa attacctcat cttggagctt agtttgtttc tttaaagcaa 60
tgatcagctg catatgttat atttacctgc tttggtgttg ctgaaatgct tatattcatt 120
tttgttaaac ctctatttta ttttattact aaaaaggcta tgaagcttga gcatcatagt 180
ttgcttctca gggttgaatc atgttggtgc tatgcagtag gtatggttgc caagaagcac 240
tacgggaaac tgcaagaac actattaaaa ttctttgggt gggtgttgat gtcttgagag 300
caagtacaat agagttgagt tagttggcta taagaatac actagtatat ttttgcttag 360
ttggaggaa 369

<210> 8680
<211> 403
<212> DNA
<213> Triticum aestivum
<223> Clone ID: LIB104-051-Q1-E1-D3
<400> 8680

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tgaggaggtac gaacaggatg atgagtacaa gaagaagccc agtggtggtg ggaggtatga 120
agaggatgac gagtacagga agaagcctac tagcgggtgt ggccggctac gaggtggaag 180

gtatgaggga gaagatgagt acaagaagaa gcctaccagt ggtggctatg gtggggggag 240
 gtatgagcaa gaagatgact acaagaggcc ccctagtggg ggctatgggt ggggaaggta 300
 cgaacaagac gatgagtaca ataagaagcc tagtgcatgt ggatatggag gtggaggagg 360
 gagatacgaa gatgagtaca agaagccaac cgggtggccat gct 403

<210> 8681

<211> 424

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-051-Q1-E1-D8

<400> 8681

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 cataaagatc atggtgctac tttgaagcac aagtgtggaa aaaaggatag tagcattgtc 120
 ccttttttta ttttttattt ggcctttctt ttttcttctt tttttggcct ttatctttat 180
 tttatttggg acaacgctct attactgatg atcatcacac ttctatttat ttacaactca 240
 aagattacaa ctcgatacta taacaaagta tgactctata tgagtgcctc cggcggtgta 300
 ccgggatggg caatgaatca agagtgcacat gtatgataaa ttatgcatgg tggctttgcc 360
 acaaatacga tgtcaactac atgatcatgc aaggcaatat gacaatgatg aagcgtgtca 420
 taat 424

<210> 8682

<211> 390

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-051-Q1-E1-E1

<400> 8682

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 ggagcatctg ctgcgccgag agctgggatc accttgaccc gttcatggcg ccgcgatggg 120
 cgaaacattt caacgtgtac aggtcctgag agtgagtgat tcacaagggtg gaagatcgtg 180
 atgatcggct gaacacaaag tctgggttacc agtttgacca caatgtgatt cttgtttggtt 240
 ctttctttgc actcttacia gcatttcaag gaagtgtttg ttaatcttta catggctttt 300

gttgtgggtt cagagtccat ccatgttgtc caatatgtgt gcaaaagctt ttctttctgc 360
ccttgctcgg tgtgttttgc atttgtgtgt 390

<210> 8683
<211> 423
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-051-Q1-E1-E3

<400> 8683

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ctgccctcat cgggtggttct agcctggcat tcacatctgc cattctggac gttggcggtta 120
acactaccag agtggacaat ggcaaagcgt accatgcata cacaacggaa aagaagccccg 180
agcctgcgca ttgatcaagg ttgtctactt gtagcacaaa tcatgcaaac cagctcggtg 240
aatttttgag ctgatgtgtg ctgttatgtc tgttttgctg atgcacctag ttcctttgca 300
aagctgtagt aacttgtttt gctcgagggc aatacaacag acctggaata aatatcttgc 360
tttattttgc ttcattcattg gttacgataa taatcacatg tgacacaata ttgttaccct 420
aac 423

<210> 8684
<211> 360
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-051-Q1-E1-E4

<400> 8684

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ggagagagag agggagatct ccaaggctgc ggccatggcg atgcgtgcgc tgtacaacga 120
gatccgcgcg atgaaggggtg cgcgaggtgc ccgcgtacct caagccgcgc ctcacctggg 180
cgaacgtgaa gaagagcacc gaccaggcgg tggaccgcta catcgagaag tacatcgaga 240
ccagctcggc tgaccgcgtc ttccacatct gttcggcgcg catggccttc tcgtacctcg 300
tgggcctgcc ccaagagcgc cgccacctcg agcacctcga gaaacacggc ggccactaga 360

<210> 8685

<211> 426
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-051-Q1-E1-E5

<400> 8685

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ctctaaaaat tcagagtatt tagatcttaa tgatgaaatt gatgaaagtg ggattgaaag 120
aaataaaaaat ctagatgcta aaccactat attggatttc aaggaattta attatgaaag 180
ttgctcttta attgagtgtg tttccttggt gcaatccgtg ctaaattctc cacatgctta 240
tagtcaaaat aaagccttca ccgaacatat tgttgatgcc ttgatgcaat cttatgaaga 300
aaaacttgag ttgaaagttt ctatccctag aaaactctat gatgaacggg aaccaactat 360
taaaattgaa attaaagatc atgagtttta tgctttgtgt gatttgggtg ctagtgtctc 420
tactat 426
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<210> 8686
 <211> 422
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-051-Q1-E1-E6

<400> 8686

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ctcttcatgg atcacaaaca cagaactcag ttctgagga cggtttcaag gagacaaccc 120
accatgtact cctacatggc ctctcacatc tacctttacc aaattgagtt cacacgctta 180
gccctcaata gtagaacatg ttcacacgcc tccaattcat ccccgatgaa tcagacctaa 240
ctcaactcta agcagtagca ggcagacaa acaagcatga atgagtaggc acatcagggc 300
tcaaacaact cctgctcatg ctagtgggtt tcatctatct actgtggcaa tgacagatca 360
tgcagaggaa aaggggttca actactgcaa catgtaacag ttgaatcctt gttgtcctaa 420
tg 422
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<210> 8687
 <211> 442
 <212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-051-Q1-E1-E7

<400> 8687

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aattcgccgg tcgacgggct aacatagaaa gtggataaaa cactaggatc aatttgatgc   60
ttgataattg ttttgagata tagagggtgt aatgttagag tcatgctagt gggtaattat  120
gaaattgaga aatacttgtg ttgaagttgg caagtcccggt agcatgcacg tatggtaaaa  180
gttatgtgac aaatttgttg catgagctgc tcttttaatt gtcttcctta tgagtggagg  240
tagggattgc gcgatggtta actcctacca acccttcccc taggagcatg catactagta  300
ctttgcttcg agggcaagta gacttttgca ataagtatat gagttcttta tgaccaatgt  360
gagtccatgg atatacgcac actcaccctt ccactttgct atcctctatt gtaccgcgca  420
actttcgccg gtatcatgca cc                                           442
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<210> 8688

<211> 431

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-051-Q1-E1-E8

<400> 8688

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gagggagatc tccaaggtcg cggccatggc gatgcgtgcg ctgtacaacg agatccgcgc  120
gatgaaggtg cgcgaggtgc cggcgtacct caagccgcgc ctcacctggg cgaacgtgaa  180
gaagagcacc gaccaggcgg tggaccgcta catcgagaag tacatcgaga ccagctcggc  240
tgaccgcgtc ttccacatct gcttcggcgg catggccttc tcgtacctcg tgggcctgcc  300
ccaggagcgc cgccacctcg agcacctcga gaagcacggc ggccactaga tccggatccg  360
cctcgcgcaa gagagcttat ccacggttga ttcaggatgg tgttcccat ttttcttcca  420
ctgatgggct a                                           431
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<210> 8689

<211> 375

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-051-Q1-E1-E9

<400> 8689

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ttgtgattag gcaacagaac aaaaacagtc agccagatca aagtgtctgc gattgatggc 120
atacacttca catggatgaa ctgtttgcga ttagccacaa caaacagaaa cagtttagaca 180
catcaacgtg tgtgcgctag acgggcacac attctaatta aaagaagtgt gcgcgatggt 240
aataacgagc gcgcacggtt gttggaacaa gacgtgtgct gacattgcct attacagtgc 300
accatatggt gcaaacgcca cgtaggcggc cgagaaagcg tgcccatggt acgccttccg 360
ggaatagtgc tgcac 375

<210> 8690

<211> 409

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-051-Q1-E1-F1

<400> 8690

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ctaccttacg ttccgtttgt tcggctaggg tagtaaaggg agaactactg cggttgtggt 120
tatggttcat ctagtcaagc acctcagtag agaaagccga aaactgactg tcatgatgcg 180
gcgagagctg gtcagccatt cggtgactta ctaaactctt aacgattttt ccgtttttaa 240
cgaaggacta tttttccagt catatacata acgcatccgc attcgaatag ccgcatacat 300
accaggggct attttatagc cccatcatca aactcctatg gataagtgag agccgtaaag 360
ccgtatagtc cgattgcctg gttcgacgca ctaacacctc cgtcacgga 409

<210> 8691

<211> 428

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-051-Q1-E1-F10

<400> 8691

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gaaccgttat gtaacgaaga cggagcatga tttgtttatt gattgtcttc cttatgagtg 120
gcggtcgggg acgagcgatg gtcttttctt accaatctat ccccttagga gcatgcgcgt 180
aatactttgt tttgataact tctatatttt tgcagtaagt atatgagttt tttatgacta 240
atgttgagtc catggattat acgcactctc acccttccac ctttgctagc ctctctaata 300
ccgcgcactt ttcgccagta tcatacacct accatatacc ttctcaaaa cagccaccat 360
acctacctat tatggcattt ccatagccat tctgagatat attgccatgc aacttttcac 420
catccaat 428

<210> 8692
<211> 393
<212> DNA
<213> Triticum aestivum
<223> Clone ID: LIB104-051-Q1-E1-F11
<400> 8692

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gaaccgttat gtaacgaaga cggagcatga tttgtttatt gattgtcttc cttatgagtg 120
gcggtcgggg acgagcgatg gtcttttctt accaatctat ccccttagga gtatgcgcgt 180
actactttgt tttgataact tcgatatttt tgcagtaagt ataggagttt tttatgacta 240
actgttcact ccatggatta tacgcactct cacccttcga cctttgcgag cctctctaata 300
accgcgcact tttcgccatt atcatacacc taccatatac cttcttcac agagccacca 360
tacctaccta gtatggcatt tccatagcca ttc 393

<210> 8693
<211> 419
<212> DNA
<213> Triticum aestivum
<223> Clone ID: LIB104-051-Q1-E1-F2
<400> 8693

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cttctcgggc gaggaatgca acgcaaagag ccaaatcggt ggggtgtttg gcgctctccg 120
tgtcactgat gacctgttga tgaggagggc gtatttttagg aagcagcagc ttgacaacaa 180

aacaacatca cctaactcta actgaagagg acagccggtg tgatttgctc ttacattgat 240
accgcatgcg tatgaataat ggtccaatgg aattgggagc ggagtaagaa gctcatgttg 300
cctttatgca tgtaataatc atgcctgcct gcatggcccg ctagctgttg gtccaatgcc 360
tggctgcctg cctgaactgg cgtcaatttc cagtttgttt ttgtaatata taataactc 419

<210> 8694
<211> 421
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-051-Q1-E1-F4

<400> 8694

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ctagatcttc ttttttgact atatattata tttttctgtt ttaacaaatt caatataaaa 180
aaaaccgaac tttttctatt atctattaat gtgtatctat ccgtaccgta atattttgga 240
atattatgaa ttagataaat ttacatgctt tctcattcca ttcgcgagga gctggatgag 300
aagaaactct catgtccagt tttgcagtag agatggaact aagaaagaga accatcgact 360
ataaccccaa aagaaccaga tttcgcaaac aacatagagg aagaatgaaa ggaaaatcct 420
g 421

<210> 8695
<211> 358
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-051-Q1-E1-F6

<400> 8695

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aattaacgag acacaaaggt tcaagcttgg ggatgcccaa ggcaccccat aatcatattt 120
caciaagttt cagtcatcta agcttgggga tgccccgtta ggcacccac cttacttctt 180
caacaacgat cggttactat cggttgagcc taagtttttg cttcatcaca tgagttgtgc 240
tattccttgca ttgttactct attttgcctt gcatcatctt tgcataagat accatcatgt 300

caaattcttt aatgaaatag actctttgca taggttcaaa actatttaac ctcccttt 358

<210> 8696

<211> 415

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-051-Q1-E1-F8

<400> 8696

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ctacgggaac ccgctgggga tctgcgga ctacacggtg ggcaaagcc acacgcccac 120

ggccaaggag attgtggaga aggcgtgctg gggaagagg agctgctgctc tggccgtgctc 180

gcacgaggtg tacggcgggg acctcaactg cccgggcacc acggccacgc tggccgtgca 240

ggcaaagtgc tccaagaggc agaggaccgc cgagcaataa gtaagctaag ctacagatatg 300

tactgctatg tagatcatct catcaccttc acctttgccg accatggact ttttcaggct 360

gcttgtttgg gatgcgtgca tacgtgttgt actttgttga gtccgtgac ttgtt 415

<210> 8697

<211> 398

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-051-Q1-E1-G1

<400> 8697

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acaagacttt cccaagtct tccaatggt tctacttggc acaaacta attaaacaca 120

aaaaacacaa ccaaaaaaga ggctaaataa tttatatatt aggaaacagg agcaaaaatc 180

aaggaataaa aataaatttt ggttgccctc aaacaagcgc tatcgtttaa agccgctagc 240

taggcataaa agcgaggata gatctaggta ttgccatctt tggtaagcaa tccataagtg 300

gctctcatga tagtttaata tggcaatttt atttcatttc caggaaagtg ttccacaccc 360

tttttaatgg aaatttagat cgaacactcg cttccttc 398

<210> 8698

<211> 353

<212> DNA

<213> *Triticum aestivum*

<223> Clone ID: LIB104-051-Q1-E1-G10

<400> 8698

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acgaattaca agacatggaa agataagaca acgaaaacat tgttacaaag cagacatata 120

gtttcaaata aattaactat tgaagctaata gtgccccaaaa gaatctagga gtataactac 180

ctacttcaaa ggcataattta tacagttctt ctacatttta tactatcccc tgcgaaatgca 240

tgggttgacg actagtgaga gtaactcttc agctcataca ttgggtcactt ccccttcatg 300

cttatcgaag gatgaatggg atgatgattg ttatgatcat gttgattctt ttg 353

<210> 8699

<211> 446

<212> DNA

<213> *Triticum aestivum*

<223> Clone ID: LIB104-051-Q1-E1-G6

<400> 8699

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cccaggaacc cgtagaatct cgagtggacc acatcagcga tctctcggac tccgtccttg 120

gggagatcat ctgcgttctc cccaccaagg attgctgccg caccacaagtc ctctcaattc 180

ggtggcgccc tctatggcgc gctgtgcccc ttaatctega ctgtcgtcat ctagctctct 240

tcaatgattt tgaaatcccc agagccatca tctcctccca ccagggtcc gttcaaagcc 300

tctacatccc gccttctacc tgagcaagca tagcatgccc tgcattggtg acgcctggct 360

ggaatcccct gaattcacag aactacagct gcttgagttc tactattccc ctggaaatca 420

cataccacat accgaatgcc atgaac 446

<210> 8700

<211> 433

<212> DNA

<213> *Triticum aestivum*

<223> Clone ID: LIB104-051-Q1-E1-G8

<400> 8700

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 ttcccgaaaa caagtaaagc gctctggaat aactctaagt ctaatgagaa gcacgctaac 180
 caactagaac atcctaatgc cgggtgaacaa cccctttttc gaaaacacat taccacaact 240
 ctggaatatc actaagtcta aggagaagca tgctaattag ctagaatatc gtaatgccgg 300
 tgaacaatcc catTTTTCAA atcaaagaac atcagctctt gaatatctct aagtctaagg 360
 agaagcacgc taaccaacta gaacatccta aaccgggtga acaatcccc tttctaaaac 420
 actttcacac cag 433

<210> 8701
 <211> 353
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-051-Q1-E1-H12

<400> 8701

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 agtacgacgg tggctgcaac cgaggctact accacagggc cttccagtgg atcatggaga 120
 acggcggcct caccacggcg gcgctctacc catacaaggc ggtgagaggc gtctgcttcc 180
 gcgccaagcc cgccgtcacc atcaccgggc acgcgcggt cgccaagaac gaattggccc 240
 tccaaagcgc cgtcgcgagg cagcccatcg gcgtggccat cgagggtccc agcagcatgc 300
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<210> 8702
 <211> 419
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-051-Q1-E1-H2

<400> 8702

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 gtgattttgt ggcctttgac gaactcttcc ttgttcgttt aaatgatacc tagtaccacg 180

gtatggagca agaaactgtg gtgtgtttgc ataatcagca tccacgagat aaaatttacc 240
atcggaact tcaaaacat ggttaagtgc atcatctaga actcttgc atgaagctga 300
tccctcccaa ccaggatgta tatgcacaaa cttcaagtca aaatctcagg caaccataac 360
attctgcgag attgtttgcc tcctatttct gtatggttct tgctcatcca atggaagct 419

<210> 8703

<211> 446

<212> DNA

<213> Triticum aestivum

<223> unsure at all n locations

<223> Clone ID: LIB104-051-Q1-E1-H3

<400> 8703

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tgaactactt tccaataagg gagaagggtgc agttacctca tcaagttcta ctttctccc 180
actcacttct ttcgagagaa actccttctc tagaaaggat ccattcttag caacaaatat 240
tttgccctcg gatctgtgat agaagggtga cccaacaatt tcctttgggt atcctatgaa 300
gacgcacttc tccgatttgg gttcgagcat atcaggttga agctttttca cataagcatg 360
gaagcccaa actttaagaa acgagaactt tggtttcttg ccaaaccaca gttcatatag 420
ggtttaatgc gttttctgag actaac 446

<210> 8704

<211> 420

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-051-Q1-E1-H8

<400> 8704

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ggcttcatcg acttcagcga gttcatctcc ttctgcaacg ccaaccccg gctcatgaag 180
gacgtcgcca aggtcttctg aatcagttca tttcacctca gccgtccgat ccaggagccg 240
atccatctac gtacggcttc gtatatcaat ttcattgcaac tacctactcc ggtcccgatc 300

cagcctcagc ttcacctgag gccggcccta attttgtttg atcatttttt ttgctaccag 360

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<210> 8705

<211> 106

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-051-Q1-E1-H9

<400> 8705

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<210> 8706

<211> 400

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-052-Q1-E1-A10

<400> 8706

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gccaccgtgc gccgagaacg tctactggaa cgtcctgggc aaggtgaggc agatgaccaa 120

ggagcagatc gacctcgtca ccgcgccgct gccggccgcc gccaaagcaga acgcccggcc 180

ggtgcagccg ctcaacggca gggtcgtcac cttctacaac ccgcccaaca gcaccatctc 240

cttcgacatg tgatcttacc cccattagat ggagtgctaa ttaacctaga aattaacgtg 300

ttactgtatt cgtgtatcac catcagcgta ctgaccagct aatctcgttt ttgccttgtc 360

attatctctt cgctgcttta ctcagatgaa acattgtgac 400

<210> 8707

<211> 398

<212> DNA

<213> Triticum aestivum

<223> unsure at all n locations

<223> Clone ID: LIB104-052-Q1-E1-A11

<400> 8707

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agcgttggga tctatggatg ggcataatag ctctctttat ggtgggattt aatgtgtcac 180
atcccccca catcggctgt gatcattgta catactgtgt cttgctgcct gcgtttaaga 240
cggttgtaag acagcgaagt gtttgttccc cttcgggcgg gggactgtga aatgaagaag 300
tgaggtaaca aatgagaagc gggatgaagc aaggagcaac tgttgctgta natgcctgtg 360
acttagtaca tgctagtttt tgttttcctg tcatcaca 398

<210> 8708
<211> 439
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-052-Q1-E1-A12

<400> 8708

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aaggcatccc ctctttcttc aacaagtatc ggtatctttt cggattcgtt tcgttcatgc 120
gatatgtgca atcttgagc atcttttgca tttagttttc atttttcttt tatgcaccat 180
gctggcatga gatagtcctt ggttgattta tagaatgctc atttcacttc acttatatca 240
tttgaagttt ggatttcctg tttctcttta catagaaaac cgccatttgt agaatgttct 300
tttgcttcac ttatatattgt tagagcacgg gcatatcttt tgtagaaaga ataaaactct 360
cttgcttcgc ttatatctat ttagagagat gacaggaagt ggtcattcac atgattagtc 420
ataaaatcct aacataaac 439

<210> 8709
<211> 391
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-052-Q1-E1-A3

<400> 8709

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ttctgcttgt gccttacctt ctctcttgta tgaaaactaa tttcagatga atctccttgc 120

tcaaaggatc atatgatctc aaaacaataa tgggctctgc attgctcttg tcaatacctc 180
tctccctttt gccttgtgac gctgtactta attaattact atttaattat gtatcatcag 240
tctgcacctg cgcttcatta acctttgttt ctccaatat tatttgatct atatttactc 300
tttgcaaaat gtacaataat ggcaacgctt ataaagaatt ttctttgggg aatttattga 360
attatccttc catcaacaat gagaagggt t 391

<210> 8710
<211> 419
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-052-Q1-E1-A5

<400> 8710

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gcacgagaga aaccagatac accgctccag gagataagat cgtgggttct tatctggatg 120
ttcatgggct tttattatgg catttttaaa tcctttttaa tgtgtataca agctgagatt 180
ggagggggag gggggcaact atgcttgtag gtgtgattta tctctctttg tgcgcaccga 240
ttcgaagtat cagtcgatgg ttggggggct tggccctgc ttgtcccccc ttgctccgcc 300
actgggaaga cccatgtgtc acgataattt tgtagatga tgtacaactc aatcgtctat 360
tcaccagagg tgtatcaaata agttgtatt tgtctttgtt ctcttgacg ggtaacacc 419

<210> 8711
<211> 436
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-052-Q1-E1-A8

<400> 8711

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ctccaagta caagagtgc aatggagagt tccttggtat tacttctgat cttgtgagc 180
attggaagct tcaacaaact gcaatgtcag gattcctgat agagattggg tggtaataa 240
agaagccttc tccagatgaa tttaaaaatt tactgagtaa aacaaatggt aagagatgga 300

tatgtgtggtt ggagttcttg atacagaaca attttatcaa tgttcttgaa atgattgtga 360
aatcatcgga caacatcata ggctctgaga ttctttctaa cctggaaagt gggcgggttg 420
aacatcatgt cacagc 436

<210> 8712
<211> 416
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-052-Q1-E1-A9

<400> 8712

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gtttgtctat gtattcacac atgtattatg tttccggta atacaattct agcatgaata 180
ataaacattt atcatgatat aaggaaataa ataataactt tattattgcc tctagggcac 240
atttccttca gcgcgtagta atttgtttcg ataactaata gatttttgta ataagtatgt 300
gagttcttta tgactaatgt tgagtccatg gattatacgc actctcacgc ttccaccttt 360
gctagcctct ctagtaccgt gcaactttcg ccgggtacat aaacccaaca tttatc 416

<210> 8713
<211> 157
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-052-Q1-E1-B1

<400> 8713

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ttttgaggga tttttgcagt ggggtttgta ggggtctatg ccgcgctggg tttgggattt 120
gaaataaaac gaaggagat gtgccacgct cttaagg 157

<210> 8714
<211> 397
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-052-Q1-E1-B10

<400> 8714

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agaccctcac cggcaagacc atcaccttgg aggtggagtc ctccggacacc atcgacaacg 120

tgaaggcaaa gatccaggac aaggagggca tccctccgga ccagcagcgc ctcatcttcg 180

ctggcaagca gcttgaggat ggccgcaccc tggctgacta caacatccag aaggagtcca 240

ccctccacct ggtgctcagg cttcgtggag gcatgcagat ttttgtcaag acgctcaccg 300

gcaagaccat caccctggag gtggagtcct cggacaccat cgacaatgtg aaggccaaga 360

tccaggataa ggagggcatt cccccggacc agcagcg 397

<210> 8715

<211> 230

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-052-Q1-E1-B3

<400> 8715

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tccgggtttgt gcacatcttc cggtagagtt cagttcgctt cccgtgttaa aactagtgat 120

tgtcatggag attactgttt aactgagata ccgatgttgc catggtggat agaacaataa 180

tttatgcggc tgagaaataa tggcgttact ctgactgttt ttcacccact 230

<210> 8716

<211> 369

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-052-Q1-E1-B7

<400> 8716

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gttttcagcc ttgttttggg caccgaggag cctggaatat cttacgtgct gtgctgctcg 120

gcgtttttgc acatcttccg gaagagttca gttcgcttcc cttgttaaca ctagtgattg 180

tcgtggagat gactgtttta ctgaaatacc gatgctgcga tgggtggatag aacaataatt 240

tatgcggatg agaaatattg gcgctactgt gactgtgtat caccactta tcttgtgatt 300

tgcgagccta tttggcaatt ggaaaaaaaa aagcaagcaa atcaccgaac catccgaacg 360
 tcacgaacg 369

<210> 8717
 <211> 442
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-052-Q1-E1-B8
 <400> 8717

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 aaagtgaacc cgacgcacta ccgggagcca aggttttaca ccaagggtgtt taaggaatgc 180
 cactcctatg accaagatgg gaattccttt gagctttctc tggtaacttc caagtgcatt 240
 ggagcttatg tgaagagcaa gaagaaccag aaccagatat gttggctatg ggagaaggtc 300
 aagtgcacag aagacaaagg ctttcagaga ttcctggaca atgtgcagta caaatccact 360
 ggaatcctgc gttatgagcg cgtgtttggg gagggttatg tcagcaccgg tggattcgag 420
 aacacaaaag aatttgtgga ca 442

<210> 8718
 <211> 404
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-052-Q1-E1-C1
 <400> 8718

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 actatgagaa gtttgatact tgataattgt tttgagatat gaagatgggtg atatttgagt 180
 catgctagtt gagtagtttt gaatttgaga aatacttggt ctaaagtttc tgattcccg 240
 agcatgcaca tatggtgaac cgttatgtga tgaagtcgta gcatgattta tttattgatt 300
 gtcttcctta tgagtggcgg tcggggacga gcgatggtct tttcctacca atctatcccc 360
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<210> 8719
 <211> 302
 <212> DNA
 <213> Triticum aestivum

 <223> unsure at all n locations
 <223> Clone ID: LIB104-052-Q1-E1-C11

 <400> 8719

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 gagtgtttgtg agcctcgcca tgaccgtcta caacatccgg cagcgccctg tctttgctta 120
 gctgcggatt attgagcatc ttggaacctc aagagtggcg acctgaagaa gggtcagact 180
 tgcccttgcc tatggcagtt taatgttgct attatctgtc ttctgttgga tgtgttatga 240
 gtatgttggt ggttaccaag gttctatatc taaaanaaaa aaaaaaataa aaataaataa 300
 aa 302

<210> 8720
 <211> 210
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: LIB104-052-Q1-E1-C2

 <400> 8720

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 tagctttgag catgaacatt gtatctggat ctcgtttaat tcgagatggc tactcattta 180
 aatccgagaa ataagggttg ttcaattata 210

<210> 8721
 <211> 381
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: LIB104-052-Q1-E1-C3

 <400> 8721

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gggagaacga tgaaacggtt gaacaagcag ctgctcgaga agctatagaa gaagctggag 180
 ttcaaggaga tatagtgcaa tttctagggtt tctacgattt caagagcaag acgcatcagg 240
 acgctgtgctg ccccgagggc atgtgcagag cggcagtgtt tgcgctgcac gtgaaggagg 300
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 ccacgtcaca atgtcgggtac c 381

<210> 8722
 <211> 429
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-052-Q1-E1-C4

<400> 8722

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 acgccttctt caccgccgtc gtgcctcca ccgccaacac ggacctcccc cgcttcatcc 180
 tcggcgagtc catgggcggc gccgtggcgc tgtcctcca ccggatgcgc ccggcgtact 240
 ggaccggcgc cgtcctcgtc gccccatgt gcaagatcgc tgatgagatg cggccgcac 300
 cggtggtggt gagcgtcctc aagctgatga ccaacatcat cccacgtgg aagatcgtgc 360
 cgaccaccga cgtcatcgac gccgcctaca ggatgcaaga gaagcgcgac gagattatgg 420
 aacaacccc 429

<210> 8723
 <211> 401
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-052-Q1-E1-C7

<400> 8723

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 aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa ataaaaagaa aaaaaaaat 180
 aaaaagaata aaaaggaaaa aaaaagaaa aaagcggggt ttctaaaagt ttaaaaactt 240

catcatatga tgacgggagt ttaaaatttt gaaagtttg accaataatt tttttgaagg 300
gtcgtttttt aaaaaccggt aataggggaa aaacctgtgg gttccccaat aaacccgctt 360
gttgaaaaat taacttttat caaaagggtt ataattgaaa a 401

<210> 8724
<211> 278
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-052-Q1-E1-C9

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taaaaactat cctagaaagt gaattggatg ctatgatcaa tttgatgctt gataattggt 180
ttgagatatg gaggtagtaa tattaaagtc atgctaattg ggtgattatg aacttaaaga 240
atgcctgtgt tgaaatttgt gaatcccgta acatgcac 278

<210> 8725
<211> 386
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-052-Q1-E1-D1

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aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaagaacaaa aaaaaaaaaa aaaaaaaaaa 180
acaaaaaaaa aagaaaagaa aaaaaaaaaa acaaaaaaaaa aaaaaaaagg ggccccccaa 240
aaggatcaaa cctaactaac ccgtgaatga aacttaaaac ccctccaaaa gggccaccaa 300
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aattaaaccc ctttgaagaa aatccc 386

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<211> 416

<212> DNA
 <213> Triticum aestivum
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 tacgcgtaga agaaaaataa aaagaaatac taaacggact ccaaaaattc cgaaataaat 180
 tttcacgggc ttctaaaatc aagccgcaca aggtgaacat ttatttggca cctaaatgca 240
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 aaatcttatt tgattttatt attaaatcct caatatttct ttattttggg aaagtcattt 360
 tattccact ctcatatttt tgcaatagaa ataattgatg ataaaataaa taaat 416

<210> 8727
 <211> 423
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-052-Q1-E1-D4
 <400> 8727
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 taatccatgc ccgacaccgt ggtggatgac agttcttata tccaccatca ttgatttggg 360
 aaattcatca taagttgccg gcatgccagg agtccaattg agataatttt cggtgtacat 420
 gac 423

<210> 8728
 <211> 437
 <212> DNA
 <213> Triticum aestivum
 <223> Clone ID: LIB104-052-Q1-E1-E1

<400> 8728

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taacagatat ttcttggttt caactttgcg acatcaaaaag agaaagacta gaaaaggaat 180
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aggaataatg acagatcgag aagctcgact aaacagaatt gggggagaag tcttatgtta 360
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ataaaaatag aaaaata 437

<210> 8729

<211> 423

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-052-Q1-E1-E12

<400> 8729

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atgagccaaa ctgcttaatt gcaaccaatc cttgggcact tagccaaagg attgtggtcc 360
aatctatcgg tggtttaatc ctagctacac tatcagaaaa atttccctac ttctataaca 420
aaa 423

<210> 8730

<211> 445

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-052-Q1-E1-E4

<400> 8730


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ggagcatttg ccgggttcag cggcatcaca tcaggtattht gcaacacaca ttatgccttc   180
ctcccgatca cagaagtcac cacaacaccg aagcatgtga acccaaatag caggatgtgg   240
caccgatgtc tcacgtccac tggccaaccg gacttccact gactcgcgtt gagcgtttac   300
ttctctgcac aggctaaact cgtaatgaat taacatattht ttgcttacc acagactagt   360
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<210>      8731
<211>      399
<212>      DNA
<213>      Triticum aestivum

<223>      Clone ID: LIB104-052-Q1-E1-E9

<400>      8731
    
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ttcccggggc gacggggggg ggaaaaataa tgatgacccc tgagtccgcy aaaccaagg    60
gaaaaaaagg ctaggtggcg aatggtaaaa ccaatgttgg gcattgctgg aagagcttta   120
cttaaggcga actgtcaagg ggttcccatt atagcccaac cgcgtaagca acgcaaaatc   180
cgggaacata acaccgatat gacggaaact agggcggcaa gagtggaaca aaacaccagg   240
cataaggccg agccttccac cctttaccaa ttatatagat gcattaatta aataagatat   300
atagtgatat cccaacaagt aaacatgttc caacaaggaa caacatctcc atgttccaac   360
aaggaaacaa cttcaatctt cacctacaac taacaacgc                               399
    
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<210>      8732
<211>      319
<212>      DNA
<213>      Triticum aestivum

<223>      Clone ID: LIB104-052-Q1-E1-F1

<400>      8732
    
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cacggcgtgt gagtatcatc cctaccttct ccatttagcg cgcgaacgag acaatttgtg    60
gccatccgcy tgattggaat ttcgatttgt aggttttcaa tactactata tatgctacaa   120
    
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ataacatttg taggctttca ataatatattg tcttgcaacg gggaaaaatc acttacaatg 180
gacaaaagag tcaggggtac cagatctttc aaagtgtgag atgcggtgac gcacagaaga 240
agctcgctc aattcgacg taatcccact tcactacgct gtcaaaatgg cccctccata 300
caagtaaaaa cccgtcggt 319

<210> 8733
<211> 396
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-052-Q1-E1-F10

<400> 8733

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gggggggcca gaagacgaag aatccccagg agatgatcac gacggtgatg ctgtacacag 120
tcatcatgta gaagatgcag gacatgatga tgatgctggc ggagcagacg acgctggacc 180
atcgatgggc tgggtgcagg accctcatat tcaatagctg cttctcaagc agacggataa 240
cgcaagagct gccgcccagg agaaagccaa gatggatcaa cttgagttag acgcggttac 300
tccattgtat gaaggatgca ggcccaggga taccgcctg aaagtaacgc tcatggctct 360
ggagatgaag gtaaaacaca aaatgaccga cgcattg 396

<210> 8734
<211> 400
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-052-Q1-E1-F11

<400> 8734

ccgggcccac ggagctgct actcatcgt ccttctctc ccgctccgct cctttctctc 60
cgctgcgtcc ctttcgcca gatccgacgc ccttcgggtc tgcgttgcc tcgcccgcgt 120
gacaaagttg ggagaagggg gttggccgct gtcttgcggt tgggcccagg cagcggtggg 180
ctggacgccg cttctgctg tcttcgagcg atgggagagg gttagggtct gtcgtttgcc 240
gttcgattgg tgactgttgc gggttggcag cgcgccgtgt agctgcgaga caacttcctt 300
gttgatctgc cgtcctgctg cagtgttata tactgtcgaa ttccaaaaac gaggtctgcc 360

acacgcgcat atcctcatct ggcgtaaagg agacaaagat

400

<210> 8735

<211> 418

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-052-Q1-E1-F12

<400> 8735

cccgccgga cggaatccta aagtagttga caacataaac tgaattgatt tgttcacacc 60

catcactgta gagtaacttg tggtgggtga tatacacaca tggtgtcaaa accaatttta 120

ccccaaacc gctgcttggt cagtactgaa aaaaaaattc aaaggtggga aaatggcata 180

gtgttttatt tttaacaatt ttcttctttt aaaatccaac acttggagtt cgaacacaat 240

ctaagtaccg agaacctttt catatctcct cataagtaca acaaaacatc gatgacttaa 300

tttccaaata ttacaaagta aatacccgta acttgaaatg aacatgaaac actgtcatag 360

atcgctcgac gggcccagac catcagcatc cctaataaac tggataagaa taaccaaa 418

<210> 8736

<211> 425

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-052-Q1-E1-F2

<400> 8736

cggcgtccaa tcatgtgcat tatttgggga attggaccga gatacatcat agttgcttca 60

caactccata tttggtccag aatcaagatc aagatgatgc actcacatag agtaaccact 120

tgagctcaaa ttcggcaagg cagcatgttt tggacatata aagatgctgt aaaaatttcg 180

taccaaattg acttggcaaa atggaacttg cttcacaac atcctctttg tccagaaact 240

tgcaataatt tttggggaga aaatggcttg attaaatgtt cccaaatttg gtggagagat 300

gggatattgg taggagcatg atctagtaat ttttcaaaaa taatgaagca atataaataa 360

cacttgcttc acaacctgaa aatattaaca gaatataaga tatgaaactg tgctcacata 420

gatga 425

<210> 8737
 <211> 447
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-052-Q1-E1-F3

<400> 8737

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ccggtcctag attcacgggt ccacggcgac ggaagagaag cagccgacgt ctccgtcgcc 60
gtcgtctcgt tcgtcccca atcttcaccg agcttccgct ccccgagca acgcggagga 120
aggaatggac aagtatcaca gcaacacccg ctttgcaccc ctgagagacg ctccatttgc 180
tctccgtggt gccttttgta cctccaactc gtctttcaac aacatggatg gccttagaca 240
ctcctcaagc attgggcaag caaggagcta cacatcttct cccttaggag ctctgcgaca 300
gaagattcct ccattctgaa accgatccct acatacaagt cgtcccttgc ctgctcctgt 360
tgcgaaaccg ccaactgtct cccatcttcc tctgaagaag ccacagctga gcgctacgtt 420
ctccatctca caccgtatat ttggcgt 447
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<210> 8738
 <211> 431
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-052-Q1-E1-F4

<400> 8738

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ggtcgacggc ggatgtgaat ttgatttaa ttagtgtttg tgccaagtag gacctatagg 60
ataacctacg atgatagttg atttgattct gctgaaaaac agaaactttg catgcacgaa 120
tataattatg ataaattaca ggaacatgct ttgctgtga ttctttttga tactgatcaa 180
taaacaaatt ttcaggactt actagtttgg tagaattttt agagttccag aagtttgctg 240
tagttacaga ttgctacaga ctgttctatt ttgacagat tctgtttttc gtgtgttgtt 300
tgcttatttt gatgaatcta tggctagtaa attagtttat aaaccataga gaagttggaa 360
tacagtaggt ttaacaccaa tataaacaaa taatgagttc attacagtag cttgaagtag 420
tcctttgttt t 431
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<210> 8739
 <211> 418

<212> DNA
 <213> Triticum aestivum

 <223> Clone ID: LIB104-052-Q1-E1-F6

 <400> 8739

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 tggccgaaca ggccatgaag ggccttatag tttggctgtg gcccaaagag gccatgcctg 120
 ggagctactt cggcctgggtg cggcggtgtg tggatgcgtg tccctggggtt gaagtcacat 180
 agcactccgc ctgcattgaa ggtgcccac cggcccttgc ccgtgctaaa gtgcactggg 240
 gcaggatgga cgctgagaag cttgtgacgg acgcgccacc accgggcaag gagtatcgca 300
 gcccgagatg tattataagg gtgtcctgaa gggcgccgc attattgcgg gtgagtgtc 360
 caaggatgta atatttgagt agactcgcat tttgttatcc tgtgcgctga aaactttg 418

<210> 8740
 <211> 434
 <212> DNA
 <213> Triticum aestivum

 <223> unsure at all n locations
 <223> Clone ID: LIB104-052-Q1-E1-G1

 <400> 8740

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 aaggggtaag gggctgctct tttcttttcc tttgattttt tactttttat ttaattttct 120
 tttctatttt cgtttagttt cctgttttat ttaggttctg ctatcanatg aattttgttg 180
 accatgtaaa tttgcaaata acccacgcac tatatttttg ggctgcacaa aatgcttccg 240
 ggcaattgga gttaatatata attatgattg tatttgaaag ggcaaaaaaa ggtgtcgttg 300
 gtccattgtt taaaatccat ggggtgtttt aaacatctcc aaaaatattt cttaatgaat 360
 gagaattatg tagtgaatat ttccaaccta aggaacattt ttaatttaca gtttttataa 420
 attctaattt gact 434

<210> 8741
 <211> 409
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-052-Q1-E1-G10

<400> 8741

ccgggtcgac gggaagtaca acaacttcgg cgatggaagt caagattatg gggagattat 60
taggataatc atgactttga tgcattggata agctagctac atgcgtgcgc gagttgggta 120
gtctatgcat ggcgtgagtt agctgggttaa gttgttagct acgtgcatgc atcgcatgga 180
tatgggtgca tgtgggtgag atattctagg aggtgagtggt ccgtgtgtgt gcatggatag 240
agtttggttag actccaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 300
aaaaaaaaaa aaaaaaaaca aaaaaaaaaa aaaaaaaaaa aaacaaaagg aaaaaaaata 360
caacaaagga aaaaaaaagg caagaacaaa aaaaaaaaaa ggggccgcc 409

<210> 8742

<211> 437

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-052-Q1-E1-G2

<400> 8742

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gctgcaaata gaatgaccgg ccatgaatta taaggctgag cgatgtgcgg ttgtctcttc 120
cgtttcttag tttcgaatca gcaacgcgcg tttgctgac cgtaagctgc accggagttt 180
gtatccacgc gttttttatt tcttcataga aacgtttgta tccacgcgca ggcggtgacc 240
cacacggatt ttctccaat gctccagact acacggaatg ggccaccaac tttcagaaat 300
gcatattggg ccaggcctaa tgaagcgaac caacaggctt tatttgggcc gggttcagcgt 360
cttgaaagtt ttcaagtcct caaagaaagt tcttcatcga ttaaaaaaa gatcttcaag 420
ggccaaccta tattaat 437

<210> 8743

<211> 465

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-052-Q1-E1-G3

<400> 8743

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agcatgataa aattctgatt tttttacaca agattgatat acaaatttcc cagtttgtac 120
taattttttca caatttttgg agttatagaa gtatatgaaa tttccagatt actacaaact 180
gttctgtttt tgaaaaattc tgttttcctt gtgttggttg cttattttga tgaatctatg 240
ggtagtatcg gggggtatga accatgaaga agttggaata tagcatatat aacatcaata 300
taaatttata atgagttcac aacagtacct aaagtggatga tttgttttat tataactaatg 360
gagcttatga gttttctatt gagttttgtg ttgtgaagtt ttgaagtttt gggtaaagtt 420
ttgatggagc acgaaataag gagtggcaag agcctaagct tggggg 465

<210> 8744
<211> 430
<212> DNA
<213> Triticum aestivum
<223> Clone ID: LIB104-052-Q1-E1-G5
<400> 8744

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catacatatc caaaggggat tctgtttgat cagctcaatg acaagaaaat atacaatgat 120
aaaatggcct atggacaatc taagcttgca aacatactgc acgcgaaaga gctctccagg 180
cggctcaagg aggaaggagc taacatcaca gtttaattgcg ttcacacctg attgatcatg 240
accaatttga tgaggcattc ctttgctctc atgaaggcaa ttcaagttgt cacctacttg 300
ttctggaaga atgtaccca gggagcggca actacttgct acgtagggtt caaccctcag 360
ctgaagggtg tgacaggcaa atactttgcc gactgcaacg aggagaagac gagcaagcat 420
gcgaagagcg 430

<210> 8745
<211> 444
<212> DNA
<213> Triticum aestivum
<223> Clone ID: LIB104-052-Q1-E1-G6
<400> 8745

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gataattatg attccgatga tttgattgaa atatcccttg atgaacatga tgcttgctat 120
tcttatggcc atgataccaa tatttatgga gatgaatttg ctatagtttc tgatgttaaa 180
catgagattg ttgccattgc acccatactt gatagttcct tgaatcgaaa gcatgattgc 240
gatgaagtta ttataaatta tattaatgtc aattgtgtta atgatatgca aaaccctaag 300
cttggggatg ctagttttgc tatctctact atttgttgca atgatcatga ttgggatgat 360
tcttcttatg atcttgaaaa tttatttaag ccccatgatg aacatgagat tgataataat 420
gtttgtaata atatttaaaa tggg 444

<210> 8746
<211> 438
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-052-Q1-E1-G8

<400> 8746

gggtcgacgg ggatggctat gattaccaac ttgtaacgcc cacgacgagg ctatatctcc 60
cacgtgtcga ggcacgactt agaggcataa ccgcatagtg gttttgtcgc aagaaggggc 120
atcttcacac aatcccatgt aatgaacaag aatgggataa agagttggct tacaatcgcc 180
acttcacaca atacatgaat ataattcata catcatccga aatacaaaca tatagaccga 240
ctacggtcaa aatccagatg aaaataagac aaccccaa at gcttgatccc cgattgtccc 300
aactgggctc cactactgat catcaggaaa agacacatag taacgaccac gttcctcgtc 360
gaacgccac ttgagatcga ccccatcgtc ggcaccggca tcgtcggcac ctgcaactgt 420
tttggtagaa tctgtgag 438

<210> 8747
<211> 411
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-052-Q1-E1-H1

<400> 8747

cacggcactt caatataaaa aaaaaaaaaa aaaaaaaaaa aacataaaaa aaaaaatatt 60
aaaagcaaac aagtatgaaa aaaatacaaa aagtcccaac cactaaaaag ataaaaaagt 120

caaaaaaaaa accggccgcc caaaagggttc aacactaatt tacccttaaa tgcaacgtaa 180
 aaccctcca aaagtgccac caaatctcat ttaacgggcc ttcttttaaa aaatccttaa 240
 tgggaaaaaac cctggcttaa ccaacttaaa tccccttgaa gaaaatcccc ttttcacaaa 300
 cgggggtaat atcaaaaagg cccgcaccta tcccccttcc aaaaatttgc ccaccctgaa 360
 tggcaaattgg aacccccct taagcggccc ataaaccccg gggggtttgg t 411

<210> 8748
 <211> 407
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-052-Q1-E1-H10

<400> 8748

ccgggccgac ggacaacaca ggtcgcgtaa tcctggacct gaaacccggc gagtaccgtg 60
 agaagatctt cctcaatctc agcaagccct acgtcacttt caagtccgat cccaagaacc 120
 cggccatcat cgcttgagc gacaccgctg cgacgctagg gaaagacggg aagcccggtg 180
 gcacgggtggg gagcaccact tgcgccatcg agtccgacta ctctgtggcg tacggcggtg 240
 tgttcaagaa cgacgcgcca ctggccaagc cggggggccaa gggcgggcag gcggtggcgc 300
 tgcgtacgtt cggcaccaag caggccttct acaactgcac catcgacggc gggcaggaca 360
 cgctgtacga ccacaagggt ttgcactact tcaaggactg cgtgatt 407

<210> 8749
 <211> 414
 <212> DNA
 <213> Triticum aestivum

<223> Clone ID: LIB104-052-Q1-E1-H11

<400> 8749

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 gtagcttttc cttgggtttt gttgagttaa aagttagcca gtgcaacttc gtgtacttcg 120
 tttgtgtcca acgaccagac caagaccgct tacggatccc caccattata aatacttcat 180
 atatattcgc aatatgcaga ttgctttatc atattcttgc tcgttcttcg attgcttgca 240
 ggaatagacc ttcgtggtca ggttgatcat gctccagcgt ggtcaataac ctctcggagt 300

tggttttagcg attgctaagg cgcaacatcg tgcacgtttg tagtcggatc gtcaaagtcg 360
tctccaccaa attgatagtt atcatctcat cgaaagattg ggacaacccc gcct 414

<210> 8750
<211> 386
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-052-Q1-E1-H12

<400> 8750

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gaaagcaagc gaggtttgtg ctaccaaaga ggcgccaggt ggacgccgag gcgcggagcg 120
agctgcagga cctgatggac gcaagggagg ctggcatgtc cttcattctg ggtcactccc 180
acatgaaggc caagagcggg tctagcttcg tgaagcggat cgtgataaac ttctttctacg 240
agttcttgag gaggaacagc cgtggcccggt cctatgccgc taacataccc catgcttcca 300
ccttggaggt aggaatggtc taccaagtct gatagtagca gctgtgtgaa agttttaagt 360
tagagagatc agatgaagtg ttgttt 386

<210> 8751
<211> 407
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-052-Q1-E1-H2

<400> 8751

ccgggtctac gatcaggact acaagacata cgtctcgggt attgttcggg gagataaggc 60
aaaatatatt taccaaaaagt acttttgttc acttacagct tagtggaggg ctgacccccct 120
tgcgggcact ggcggcaag gacgccctcc gaggcagggc ctcttgccga gggtttcttc 180
tctcgtttgg aaacctttgt ttccaagtct tcaggggtgg tccttttctt tccttcggaa 240
gaggggaattt cggattcttc tcctcgattt tcctccttcg tggagatact aattctctg 300
gtttggatga gtaatacgtg aggctcgctt ttggcttctt catctctctt tttatcttcc 360
cccgagggca cttgataagg tatgtactcc agcatcctgg ctagtat 407

<210> 8752

<211> 371
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: LIB104-052-Q1-E1-H3

 <400> 8752

 cgggtccacg gcgaccacaa agagaagaag gacaagaaga agaagaagga caagaagcac 60
 ggcgagggcc acaaggacga cgacggccac ggcagcagca gcagcgacag cgacagcgac 120
 tgagccagct ccggccgcgc tccggcagca gcgtgcagtg taggcgagat cgatgaacgc 180
 ttgggagaag tgtggcatatc atatatgttg cacggtttgg agcgtgtggt agcatatgta 240
 tgtaatgcgt gacatgtctc atggatcttg tgatgtataa taattagccg gctgcaactgc 300
 actgcacggg gcttgtaata ataacgttaa tgaatcatgt tggattgat gcaaaaaaaaa 360
 aaaaaaacac a 371

<210> 8753
 <211> 406
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: LIB104-052-Q1-E1-H4

 <400> 8753

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 cctcgcaagc gaagccggct gccgtgctct ggctcgcccg ctctctccag gccgcgcgtc 120
 tccaccgct cgtctccttc tgcgtcagct ccagggtctt gtcgatcaga atcgctcagt 180
 gcttctgct caacgggttc atcttctctg ggagcttgct aaccttgaaa tcggtgggtca 240
 ttccaactct tctatggata ctgcccgagc aatgcgatca atcatgggga caacatctat 300
 gtgatcacac aacagctgtt gccttgattt cgttcttacg ttcggggctt gtcgagattt 360
 tctatgtatt ttggttttat cccctctaca tcttcagctt tataat 406

<210> 8754
 <211> 405
 <212> DNA
 <213> Triticum aestivum

 <223> Clone ID: LIB104-052-Q1-E1-H6

<400> 8754

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gcgttgagcc gccggggcta tattgagtca ccggtctgcc tgagccatct ctgttgcggt 120
gaacggatca tcgatcatcc gaacaaatca ggtgatatcc atctaagttt gttttattag 180
cacatattgc tttttgtcaa aaaacagttt atctttgcct tgggtctgcaa tattgttgat 240
gcaggacaat tgttcactac atcaacacga cgtggctaac ttacccatcc gcctgggetta 300
ccgtgtctgt gattgacttg cctgtctgca ctggcttaca acaccgtggc tgactcatct 360
gtctatatcg tctctgatgt tgccgtcgtc cttaacgttc gtcct 405

<210> 8755

<211> 330

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-053-Q1-E1-A1

<400> 8755

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ggtagagattt tacagttttt cgtagtttat atcgggtcag ttcgtcatac cgatagtcca 120
cgaatcttcc agacaaaaaa ttagggtcag ttcattctta cggaaccaat ctaagccggt 180
gcataatctt tttagggttt tgcgatgtgg aatttgcggt tgcattcgctg tttctaactg 240
ctgggcgtac agtctagtcc tttacacttt cgagttctgg tcataagttg tcaagtcgct 300
gccgcaccat catcatcaat cctgtcatct 330

<210> 8756

<211> 248

<212> DNA

<213> Triticum aestivum

<223> Clone ID: LIB104-053-Q1-E1-A10

<400> 8756

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cgaacgacca caccaagacc gcttagggat cccaacatt ataaatactt caataatatt 120
cgcaataagc agattgcgtt atcatattct tgctcgttct tcgattgctt gcaggaaaaa 180

accttcgtgg tcaggttgat catgccccac cctgggtcaat accctctcgg acttggttta 240
gcgacttt 248

<210> 8757
<211> 362
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-053-Q1-E1-A12

<400> 8757

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caaggtgagg cagatgacca aggagcagat cgacctcgtc accgcgccgc tgccggccgc 120
cgccaagcag aacgcccggc cggtgcaagc gctcaccggc agggtcctca acttctaaaa 180
cccgcccaac agcatcatac ccttcgacat gtgatcttac cccattaga tgggggtccgc 240
aataacctag aaattaaccg tgggtactgta atcgtgtatc accatcagcg tactgaccag 300
ctaattctcgt ttttgccctg tcattatctc ttcgctgctt tactcagatg aaacattgtg 360
ac 362

<210> 8758
<211> 347
<212> DNA
<213> Triticum aestivum

<223> Clone ID: LIB104-053-Q1-E1-A2

<400> 8758

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ttggggatga cctatgagat tcttagctag aattccgatg tgcagtgcgc aataacgaag 120
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